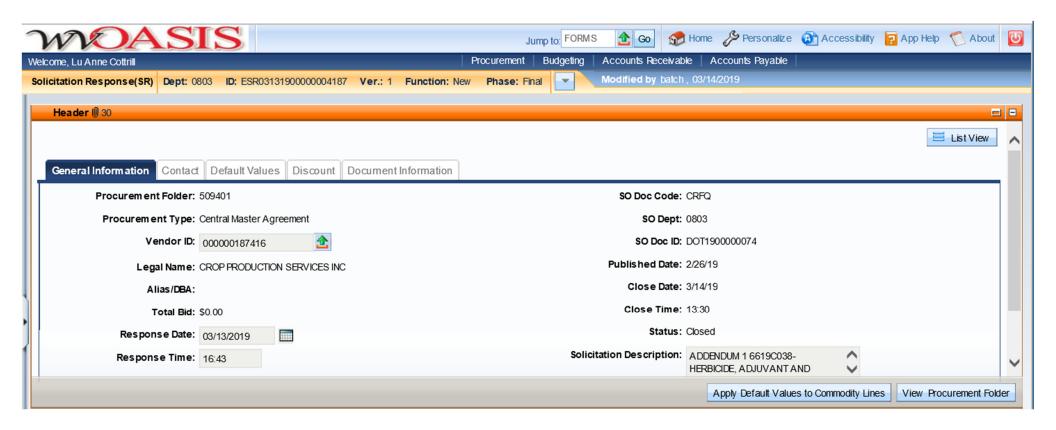


2019 Washington Street, East Charleston, WV 25305 Telephone: 304-558-2306 General Fax: 304-558-6026

Bid Fax: 304-558-3970

The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at *wvOASIS.gov*. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at *WVPurchasing.gov* with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.





State of West Virginia Solicitation Response

Proc Folder: 509401

Solicitation Description: ADDENDUM 1 6619C038-HERBICIDE, ADJUVANT AND MISC.PRODUCTS

Proc Type: Central Master Agreement

Date issued	Solicitation Closes	Solicitation Response	Version
	2019-03-14 13:30:00	SR 0803 ESR03131900000004187	1

VENDOR

000000187416

CROP PRODUCTION SERVICES INC

Solicitation Number: CRFQ 0803 DOT1900000074

Total Bid : \$0.00 **Response Date**: 2019-03-13 **Response Time**: 16:43:25

Comments:

FOR INFORMATION CONTACT THE BUYER

Crystal Rink (304) 558-2402 crystal.g.rink@wv.gov

Signature on File FEIN # DATE

All offers subject to all terms and conditions contained in this solicitation

Page: 1 FORM ID: WV-PRC-SR-001

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	HERBICIDE, ADJUVANT AND MISCELLANEOUS PRODUCTS	0.00000	EA	\$1.000000	\$0.00

Comm Code	Manufacturer	Specification	Model #
10171700			

HERBICIDE, ADJUVANT AND MISCELLANEOUS PRODUCTS PER THE ATTACHED PRICING PAGES **Extended Description:**

Comments: We look forward to providing solutions to your vegetation management needs. Thank you.

INFORMATION ATTACHMENT FORM

Per Section 3.4 of the contract specifications, the Vendor <u>shall</u> provide the name, certification number and telephone number of at least one representative holding a current Category 7 certification or a Category 11 certification in West Virginia, who shall be available to provide training and technical assistance as required or upon the request of the WVDOH.

Please provide that representative's name, certification number and phone number in the space provided below.

NAME:	Charles E. Smyth
CERTIFICATION N	UMBER: C05032
TELEPHONE NUM	BER: 804-513-7185
(Optional) EMAIL A	DDRESS: charles.smyth@nutrien.com

A <u>COPY</u> OF THE REPRESENTATIVE'S CATEGORY 7 CERTIFICATION OR CATEGORY 11 CERTIFICATION <u>SHALL</u> BE SUBMITTED WITH BID SUBMISSION.



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 02/27/2019

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on

- 1	ins certificate does not comer rights	to til	CEII	incate noider in ned or si			>).			
PRO	DDUCER Marsh USA Inc. (FEIN: 36-1436000)				CONTAC NAME:	iT		FAV		
	Sheridan Meadows Corporate Park North				PHONE (A/C, No E-MAIL	Ext):		FAX (A/C, No):		
	6500 Sheridan Drive, Suite 114 Williamsville, NY 14221				ADDRES	S:				
	Attn: Austin San Antonio. Certrequest@marsh.c	om				IN	SURER(S) AFFOR	RDING COVERAGE		NAIC#
CN.	01921609-STND-GAWUX-18-				INSURE	RA: Zurich Ame	erican Insurance	Company		16535
INS	JRED Nutrien Ag Solutions, Inc.				INSURE	RB: ACE Amer	ican Insurance Co	ompany		22667
	3005 Rocky Mountain Ave.				INSURE	R C : ACE Fire L	Jnderwriters Insur	ance Company		20702
	Loveland, CO 80538				INSURE	RD: N/A				N/A
					INSURE	RE: N/A				N/A
					INSURE	RF: N/A				N/A
CC	VERAGES CEF	TIFI	CATE	NUMBER:	HOU-	003483043-01		REVISION NUMBER: 4		
II C	HIS IS TO CERTIFY THAT THE POLICIES IDICATED. NOTWITHSTANDING ANY RETIFICATE MAY BE ISSUED OR MAY XCLUSIONS AND CONDITIONS OF SUCH	PERT POLI	REME TAIN, CIES.	NT, TERM OR CONDITION THE INSURANCE AFFORDI LIMITS SHOWN MAY HAVE	OF ANY ED BY 1 BEEN R	CONTRACT THE POLICIE EDUCED BY	OR OTHER I S DESCRIBEI PAID CLAIMS	DOCUMENT WITH RESPE	CT TO	WHICH THIS
LTR	TYPE OF INSURANCE		SUBR	POLICY NUMBER		POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMIT	s	
Α	X COMMERCIAL GENERAL LIABILITY			GLO 3373626-17		11/01/2018	11/01/2019	EACH OCCURRENCE	\$	1,000,000
	CLAIMS-MADE X OCCUR							DAMAGE TO RENTED PREMISES (Ea occurrence)	\$	100,000
	X SIR: \$2,000,000							MED EXP (Any one person)	\$	5,000
								PERSONAL & ADV INJURY	\$	1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:							GENERAL AGGREGATE	\$	10,000,000
	X POLICY PRO- JECT LOC							PRODUCTS - COMP/OP AGG	\$	1,000,000
	OTHER:								\$	
	AUTOMOBILE LIABILITY							COMBINED SINGLE LIMIT (Ea accident)	\$	
	ANY AUTO							BODILY INJURY (Per person)	\$	
	OWNED SCHEDULED AUTOS ONLY AUTOS							BODILY INJURY (Per accident)	\$	
	HIRED NON-OWNED							PROPERTY DAMAGE	\$	
	AUTOS ONLY AUTOS ONLY						11	(Per accident)	\$	
	UMBRELLA LIAB OCCUB							EAGU GOOUDDENOE	_	
	EXCESS LIAB OCCUR CLAIMS-MADE							EACH OCCURRENCE	\$	
	CEAIWIS-IVIADE							AGGREGATE	\$	
В	DED RETENTION \$ WORKERS COMPENSATION			WLR C65437314 (AOS)		11/01/2018	11/01/2019	X PER OTH-	\$	
С	AND EMPLOYERS' LIABILITY Y/N			RWC C65437351 (WI)		11/01/2018	11/01/2019			1,000,000
	ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED?	N/A		(11)				E.L. EACH ACCIDENT	\$	
	(Mandatory in NH) If yes, describe under							E.L. DISEASE - EA EMPLOYEE		1,000,000
	DÉSCRIPTION OF OPERATIONS below							E.L. DISEASE - POLICY LIMIT	\$	1,000,000
Certi	RIPTION OF OPERATIONS / LOCATIONS / VEHIC icate holder, its affiliates and subsidiaries are include	,		,	ation) when	e required by wi		·d)		
CE	RTIFICATE HOLDER				CANC	ELLATION				
	State of WV 1900 Kanawha Blvd E, Bldg 5 Charleston, WV 25305				THE	EXPIRATION	N DATE THE	ESCRIBED POLICIES BE CA REOF, NOTICE WILL B Y PROVISIONS.		
					of Marsh		NTATIVE			
					Manash	Mukherjee		Marroon Musch	Nec	
						© 19	88-2016 ACC	ORD CORPORATION.	All righ	ts reserved.

ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.: CRFQ DOT1900000074

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

y , , p specification, etc.
Addendum Numbers Received: (Check the box next to each addendum received)
I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.
Nutrien Ag Solutions, Inc.
Company
Authorized Signature Tim Smith Region Manager
2/25/2019
Date
NOTE: This addendum acknowledgement should be submitted with the bid to expedite

document processing.

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

Thomas Bowman, Warehouse Manage	er
(Name, Title)	
(Printed Name and Title) 1850 Touchstone RD, Colonial Heights (Address) 804-520-0789 / 804-520-0089	, VA 23834
(Phone Number) / (Fax Number) Thomas.Bowman@Nutrien.com (email address)	

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

Nutrien Ag Solutions, Inc.

(Company)

(Authorized Signature) (Representative Name, Title)

Tim Smith Region Manager
(Printed Name and Title of Authorized Representative)

2/25/2019
(Date)

870-367-8561 / 870-367-3371
(Phone Number) (Fax Number)

West Virginia Ethics Commission Disclosure of Interested Parties to Contracts

(Required by W. Va. Code § 6D-1-2)

Name of Contracting Business Entity: Nutrien Ag Solutions, Inteddress: 185	50 Touchstone Rd
<u>Co</u>	Ionial Heights, VA 23834
Name of Authorized Agent: Charles Smyth Address: 110	09 White Pine Dr. Hopewell, VA 23860
Contract Number: 6619C038 Contract Description:	picide, Adjuvant and Miscellaneous Products
Governmental agency awarding contract: Highways	
☐ Check here if this is a Supplemental Disciosure	
List the Names of Interested Parties to the contract which are known or reasonably a entity for each category below (attach additional pages if necessary):	anticipated by the contracting business
 Subcontractors or other entities performing work or service under the Co	ntract
 Any person or entity who owns 25% or more of contracting entity (not app	olicable to publicly traded entities)
3. Any person or entity that facilitated, or negotiated the terms of, the apservices related to the negotiation or drafting of the applicable contract) ☐ Check here if none, otherwise list entity/individual names below. ☐ Signature:	
entity listed above, being duly swom, acknowledge that the Disclosure herein is b penalty of perjury.	ized agent of the contracting business eing made under oath and under the
Taken, sworn to and subscribed before me this day of thou	474
To be completed by State Agency: Date Received by State Agency: Date submitted to Ethics Commission: Governmental agency submitting Disclosure:	PUBLIC Registed June 8, 2018

CRFQ DOT1900000074

Vendors may bid any or all Contract Items. Per Section 3.2.2 of the contract specifications, the Vendor SHALL provide the Product Trade Name and EPA Registration number for each product that the Vendor is bidding whether the Vendor is bidding the Product Trade Name requested or an "or equal" product.

If the Vendor fails to provide the required information, the Vendor's bid will be disqualified for that Contract Item.

	HERBICIDES	% Concentration/			Cost Per	
		Pounds per Gallon	Estimated	Unit of	Unit of	Extended
Item #	Description	of Active Ingredients	Quantity	Measure	Measure	Cost
DOH-1H	Water Soluble Emulsifiable Concentrate Containing:					
	Isopropylamine Salt of Glyphosate					
	Phosphate Ester Surfactant	50.20%				
	Product Trade Name: Roundup Pro Concentrate					
	EPA Registration Number: 524-529				T	
	A) Supplied in 2.5 gallon containers in lots of 5 gallons		6000	gallon	\$ 15.72	
	B) Supplied in 15 gallon returnable/refillable containers in lots of 9 per palle		6000	gallon		\$ 113,400.00
	C) Supplied in 30 gallon containers D) Supplied in 265 gallon returnable/refillable shuttle.		6000 500	gallon gallon	\$ 15.45 \$ 14.95	\$ 92,700.00 \$ 7,475.00
DOH-2H	Dispersible Granules Containing: Sulfometuron Methyl	75%	300	yalloli	ψ 14.33	Ψ 1,413.00
DOTT 211	Product Trade Name: Oust XP	1070				
	EPA Registration Number: 432-1552					
	A) Supplied in 3 pound containers in lots of 24 pounds (8 - 31 lbs ctn)		100	pound	\$ 24.38	\$ 2,438.00
	B) Supplied in 3 pound containers		100	pound	\$ 24.38	\$ 2,438.00
DOH-3H	Aqueous Solution Containing: Imazapyr	2 lbs/gallon	100	pouriu	Ψ 24.00	Ψ 2,400.00
DOI1-311	Product Trade Name: Arsenal Powerline	2 105/gail011				
	EPA Registration Number: 241-431					
	A) Supplied in 2.5 gallon containers in lots of 5 gallons		150	gallon	\$ 54.30	\$ 8,145.00
	B) Supplied in 15 gallon returnable/refillable containers in lots of 9 per pallet		150	gallon	\$ 57.82	
DOH-4H	Aqueous Carrier Containing: Pendimethalin	3.8 lbs/gallon	100	ganon	Ψ 01.02	φ 0,010.00
DOI1 411	Product Trade Name: Pendulum AquaCap	5.5 ib5/gailon				
	EPA Registration Number: 241-416					
	A) Supplied in 2.5 gallon containers in lots of 5 gallons		600	gallon	\$ 36.80	\$ 22,080.00
DOH-5H	Water Soluble Concentrate Containing: Triciopyr	3 lbs/gallon		J	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Ψ ==,
2011011	Product Trade Name: Garlon 3A and Element 3A	5 125/gailett				
	EPA Registration Number: 62719-37 and 62719-37					
	A) Supplied in 2.5 gallon containers in lots of 5 gallons		500	gallon	\$ 41.20	\$ 20,600.00
	B) Supplied in 15 gallon returnable/refillable containers in lots of 9 per pallet		500	gallon		\$ 24,575.00
	C) Supplied in 30 gallon containers		450	gallon		\$ 18,540.00
DOH-6H	Water Soluble Concentrate Containing: Triciopyr	4 lbs/gallon				
	Product Trade Name: Garlon 4 Ultra					
	EPA Registration Number: 62719-527					
	A) Supplied in 2.5 gallon containers in lots of 5 gallons		250	gallon	\$ 59.40	\$ 14,850.00
	B) Supplied in 15 gallon returnable/refillable containers in lots of 9 per pallet		270	gallon	\$ 62.45	\$ 16,861.50
	C) Supplied in 30 gallon containers		240	gallon	\$ 59.40	\$ 14,256.00
DOH-7H	Water Soluble Liquid Containing: Triciopyr	4 lbs/gallon				
	Product Trade Name: Vastlan™					
	EPA Registration Number: 62719-687					
	A) Supplied in 2.5 gallon containers in lots of 5 gallons		250	gallon	\$ 74.10	\$ 18,525.00
	B) Supplied in 15 gallon returnable/refillable containers in lots of 9 per pallet		270	gallon	\$ 73.80	\$ 19,926.00
	C) Supplied in 30 gallon containers		240	gallon	\$ 74.10	\$ 17,784.00
DOH-8H	Water Soluble Dispersible Granule Containing: Diuror	80.00%				
	Product Trade Name: Karmex DF					
	EPA Registration Number: 66222-51					
	A) Supplied in 5 pound bags in lots of 10 bags		1000	pound	\$ 4.90	\$ 4,900.00
	B) Supplied in 25 pound bags		2000	pound	\$ 4.80	\$ 9,600.00
DOH-09H	Water Soluble Liquid Containing: Dimethylamine Salt of 2, 4-D acid	3.8 lbs/gallon/56.3%				
	Product Trade Name: Freelexx and Platoon					
	EPA Registration Number: 62719-634 and 228-145			1	Т	
	A) Supplied in 2.5 gallon containers in lots of 5 gallons	Platoon	100	gallon	\$ 10.90	
	B) Supplied in 15 gallon returnable/refillable containers in lots of 9 per pallet	Freelexx	100	gallon	\$ 24.10	\$ 2,410.00

	HERBICIDES	% Concentration/ Pounds per Gallon	Estimated	Unit of		st Per nit of	E	ktended
Item#	Description	of Active Ingredients	Quantity	Measure	Ме	easure		Cost
	C) Supplied in 30 gallon containers	Platoon	100	gallon	\$	10.70	\$	1,070.00
DOH-10H	Water Soluble Liquid Containing Ammonium Salt of Imazapic	23.60%						
	Product Trade Name: Plateau							
	EPA Registration Number: 241-365			1		,		
	A) Supplied in 1 gallon containers in lots of 2 gallons		50	gallon	\$	110.80	\$	5,540.00
DOH-11H	Dispersible Liquid Containing: Hexazinone	2 lbs/gallon						
	Product Trade Name: Velpar L							
	EPA Registration Number: 432-1573		50	1		00.05	Φ.	4.000.50
DOH-12H	A) Supplied in 2.5 gallon containers in lots of 5 gallons	60%	50	gallon	\$	99.85	Þ	4,992.50
DOH-12H	Dry Flowable Containing: Metsulfuron Methy Product Trade Name: Escort XP	00%						
	EPA Registration Number: 432-1549							
	A) Supplied in 16 ounce containers in lots of 8 pounds (8-16 oz ctn		2400	ounce	\$	2.32	\$	5,568.00
	B) Supplied in 16 ounce containers		2400	ounce	\$	2.32		5,568.00
	C) Supplied in 64 ounce returnable/refillable containers		2400	ounce	\$	2.32		5,568.00
DOH-13H	Dry Flowable Containing: Chlorsulfuron	75%		•				
	Product Trade Name: Telar XP							
	EPA Registration Number: 432-1561							
	A) Supplied in 16 ounce containers in lots of 8 pounds (8-16 oz ctn)		160	ounce	\$	12.78	\$	2,044.80
DOH-14H	Liquid Solution Containing:			•				
	2, 4-D, 2- ethylhexyl ester	32.45%						
	2, 4-DP-p, 2-ethylhexyl ester	15.90%						
	Dicamba	5.38%						
	Product Trade Name: BK-800 or equal							
	A) Supplied in 2.5 gallon containers in lots of 5 gallons		100	gallon				
	B) Supplied in 30 gallon containers		100	gallon				
DOH-15H	Dry Flowable Containing: Tebuthiuron	20%						
	Product Trade Name: Spike 20 P							
	EPA Registration Number: 62719-121		40	marriad	ı,	15.20	ď	724.40
	A) Supplied in 4 pound containers in lots of 48 pounds (12 4 lbs ctn		48 50	pound	\$	15.30 10.00		734.40
DOLL 4CLL	B) Supplied in 25 pound bags	2 15 - / 11	50	pound	\$	10.00	Ф	500.00
DOH-16H	Water Soluble Emulsfiable Concentrate Containing: Clopyralid Product Trade Name: Transline	3 lbs/gallon						
	EPA Registration Number: 62719-259							
	A) Supplied in .5 gallon containers in lots of 2 gallons		25	gallon	\$	138.90	\$	3,472.50
	B) Supplied in 2.5 gallon containers in lots of 5 gallons		25	gallon	\$	139.40	\$	3,485.00
DOH-17H	Aqueous Solution Containing:							
	Isopropylamine Salt of Imazapyr	27.60%						
	Product Trade Name: Polaris SP							
	EPA Registration Number: 228-536							
	B) Supplied in 2.5 gallon containers in lots of 5 gallons		50	gallon	\$	52.40	\$	2,620.00
DOH-18H	Aqueous Solution Containing:							
	Diglycolamine Salt of 3, 6-Dichloro-0-Anisic Acid	4 lbs/gallon						
	Product Trade Name: Vanquish							
	EPA Registration Number: 228-397		222		I .	10.15	_	10 =0= 00
	A) Supplied in 2.5 gallon containers in lots of 5 gallons		300	gallon	\$	42.45		12,735.00
DOLL 10LL	B) Supplied in 15 gallon returnable/refillable containers in lots of 9 per pallet	75 lha/gallan	300	gallon	\$	42.45	\$	12,735.00
DOH-19H	Aqueous Solution Containing: Triciopyr Product Trade Name: Pathfinder II	.75 lbs/gallon						
	EPA Registration Number: 62719-176							
	A) Supplied in 2.5 gallon containers in lots of 5 gallons		100	gallon	\$	37.80	¢	3,780.00
DOH-20H	Water Soluble Emulsfiable Concentrate Containing:		100	yallon	Ψ	37.00	Ψ	3,700.00
DON-ZUN	g .	E2 000/						
	Isopropylamine Salt of Glyphosate Product Trade Name: Roundup Custom	53.80%						
	EPA Registration Number: 524-343							
	A) Supplied in 2.5 gallon containers in lots of 5 gallons		100	gallon	\$	15.95	\$	1,595.00
	B) Supplied in 30 gallon containers		100	gallon	\$	15.79		1,595.00
DOH-21H	Liquid Containing: Aminopyralid	40.60%	100	yalluli	Ψ	10.13	Ψ	1,013.00
DOLE-2111	Product Trade Name: Milestone	1 0.00 /0						
	EPA Registration Number: 62719-519						\$ 5,5 \$ 4,9 \$ 5,5 \$	
	A) Supplied in 1 guart containers in lots of 12 guarts		200	quarts	\$	75 00		15,000 00
	B) Supplied in 2.5 gallon containers in lots of 5 gallons		50	gallon	\$			

	HERBICIDES	% Concentration/			Cost Per	
		Pounds per Gallon	Estimated	Unit of	Unit of	Extended
Item #	Description	of Active Ingredients	Quantity	Measure	Measure	Cost
	Product Trade Name: Resolute 65WG					
	EPA Registration Number: 100-834					
	A) Supplied in 5 pound bags in lots of 50 pounds		100	pound	\$ 8.64	\$ 864.00
	B) Supplied in 10 pound bags in lots of 50 pounds		100	pound		
DOH-23H	Emulsifiable Concentrate Containing: Fluazifop-P-buty	6.75%				
	Product Trade Name: Ornamec or equal					
	EPA Registration Number:					
	A) Supplied in 1 gallon containers in lots of 4 gallons		16	gallon		
DOH-24H	Dispersible Granule Containing:					
	Imazapyr	7.78%				
	Diuron	62.22%				
	Product Trade Name: Imazuron					
	EPA Registration Number: 228-654					
	A) Supplied in 10 pound bags in lots of 40 pounds		50	pound	\$ 9.02	\$ 451.00
DOH-25H	Water Soluble Dry Granule Containing: Sulfosulfuror	75%	- 00	pouria	ψ 0.02	ψ 101.00
DOTT 2011	Product Trade Name: Outrider	- 1070				
	EPA Registration Number: 524-500					
	A) Supplied in 20 ounce bottles in lots of 200 ounces (10 - 20 oz ctn)		400	ounce	\$ 14.42	\$ 5,768.00
DOH-26H	Liquid Containing: Diuron	40%	700	501100	Ψ 17.72	y 0,100.00
DOU-70H	<u> </u>	40%				
	Product Trade Name: Diuron 4L					
	EPA Registration Number: 34704-854		F0	a-II.	↑ 40.7E	Φ 007.F0
DOLL 0711	A) Supplied in 2.5 gallon containers in lots of 5 gallons	45.500/	50	gallon	\$ 18.75	\$ 937.50
DOH-27H	Liquid Containing: Fluroxypyr	45.52%				
	Product Trade Name: Vista XRT					
	EPA Registration Number: 62719-586		100		A 454.00	A. 45 400 00
	A) Supplied in 2.5 gallon containers in lots of 5 gallons		100	gallon	\$ 154.80	\$ 15,480.00
DOH-28H	Wettable Granule Formulation Containing:					
	Sodium Salt of Diflufenzopy: 2-(1-[([3,5-Difluorophenylamino]					
	Carbonyl)-Hydrazono]ethyl)-3-Pyridinecarboxylic Acid, Sodium Salt	21.30%				
	Sodium Salt of Dicamba: 3,6-dichloro-o-anisic Acid	55.00%				
	Product Trade Name: Overdrive					
	EPA Registration Number: 7949-150					
	A) Supplied in 7.5 pound containers in lots of 30 pounds (4 - 7.5 lbs ctn		100	pound	\$ 36.72	\$ 3,672.00
DOH-29H	Dispersible Granules Containing:		100	pouria	ψ 00.72	Ψ 0,012.00
D 011 2011	Sulfometuron Methyl	56.25%				
	Chlorsulfuron	18.75%				
	Product Trade Name: Landmark XP	12.1.271				
	EPA Registration Number: 432-1560	_				
	A) Supplied in 4 pound containers in lots of 32 pounds (8 - 4 lbs ctn)		100	nound	¢ 111 20	¢ 11 120 00
	B) Supplied in 64 ounce returnable/refillable containers		100 1600	pound		\$ 11,138.00 \$ 11,138.00
DOLL 2011	7		1000	ounce	\$ 0.90125	ֆ 11,130.00
DOH-30H	Dispersible Granules Containing:	EC 0E0/				
	Sulfometuron Methyl	56.25%				
	Metsulfuron Methyl	15.00%				
	Product Trade Name: Oust Extra					
	EPA Registration Number: 432-1557			•		
	A) Supplied in 4 pound containers in lots of 32 pounds (8 - 4 lbs ctn)		400	pound	\$ 24.38	
	B) Supplied in 64 ounce returnable/refillable containers		6400	ounce	\$ 1.52375	
	C) Supplied in 12 pound containers		400	pound	\$ 24.38	\$ 9,752.00
DOH-31H	Dry Flowable Granule Containing:					
	Bromacil	40%				
	Diuron	40%				
	Product Trade Name: Krovar I DF					
	EPA Registration Number: 432-1551					
	A) Supplied in 6 pound containers in lots of 48 pounds (8 - 6 lbs ctn)		50	pound	\$ 12.45	\$ 622.50
DOH-32H	Liquid Containing:		50	pouriu	ψ 12. 1 3	ψ 022.30
DOI I-0ZII	Dimethylamine Salt of 2,4-Dichlovophenoxyacetic Acid	24.58%				
	Dimethylamine Salt of Dicamba (3,6-Dichloro-o-Anisic Acid)	12.82%				
	·	12.02/0				
	Product Trade Name: Veteran 720	_				
	EPA Registration Number: 228-295				·	<u> </u>
	A) Supplied in 2.5 gallon containers in lots of 5 gallons		100	gallon	\$ 25.00	\$ 2,500.00
	B) Supplied in 30 gallon drums		100	gallon		
DOH-33H	Water Soluble Dispersible Extruded Paste Granule Containing					
		31.60%				

	HERBICIDES	% Concentration/			Cost Per	
	11113131313	Pounds per Gallon	Estimated	Unit of	Unit of	Extended
Item #	Description	of Active Ingredients	Quantity	Measure	Measure	Cost
itom n	Aminocyclopyrachlor	22.80%	Quartity	mododio	mououro	0001
	Metsulfuron methyl	7.30%				
	,	1.50/0				
	Product Trade Name: Viewpoint™					
	EPA Registration Number: 432-1580					
	A) Supplied in 5 pound containers in lots of 40 pounds (8 - 5 lbs ctn		100	pounds	\$ 69.12	
	B) Supplied in 5 pound containers		100	pounds	\$ 69.12	\$ 6,912.00
DOH-34H	Non-Selective Control of Emerged and Pre-Emerged Broadlea					
	and Grass Weeds Containing:					
	Indaziflam	0.089%				
	Diquat Dibromide	0.890%				
	Glypghosat Isopropylamine Salt	20.460%				
	Product Trade Name: Esplanade EZ					
	EPA Registration Number: 432-1528					
	A) Supplied in 2.5 gallon containers in lots of 5 gallons		50	gallons	\$ 46.90	\$ 2,345.00
DOH-35H	Liquid Containing:				•	
	Indaziflam (1.67 pounds per gallon	19.05%				
	Product Trade Name: Esplanade 200SC					
	EPA Registration Number: 432-1516					
	A) Supplied in 1 quart containers in lots of 1 gallor		200	quart	\$ 325.25	\$ 65,050.00
	B) Supplied in 2.5 gallon containers in lots of 5 gallons		50	gallons	\$ 1,169.92	
DOH-36H	A pre-emergence and early post-emergence product to control			J	, ,	, , , , , , , , , , , , , , , , , , , ,
2011 0011	broadleaf weeds and annual grasses Containing					
	Penoxsulam: 2-(2,2-difluoroethoxy)-N-(5,8-dimethoxy[1,2,4]					
	triazolo[1,5c]pyrimidin-2-yl)-6-(trifluoromethyl)benzenesulfonamide	0.850%				
	Oxyfluorfen: 2-chloro-1-(3-ethoxyl-4-nitrophenoxy)-4-(trifluoromethyl					
	benzene	40.310%				
	Product Trade Name: Cleantraxx™					
	EPA Registration Number: 62719-702					
	A) Supplied in 2.5 gallon containers in lots of 5 gallons		50	gallons	\$ 125.00	\$ 6,250.00
DOH-37H	Plant Growth Regulator Containing:		- 00	ganono	Ψ 120.00	φ 0,200.00
DO11 0/11	Mefluidide, diethanolamine sall	21.45%				
	Imazethapyr, ammonium salt	4.09%				
	Imazapyr, ammonium salt	0.15%				
	Product Trade Name: Stronghold or equal	0.1070				
	EPA Registration Number:					
	A) Supplied in 1 quart containers in lots of 1 gallor		50	gallons		
	B) Supplied in 2.5 gallon containers in lots of 5 gallons		50	gallons		
DOH-38H	Turf and Ornamental Growth Regulator Containing		50	gunono		1
0011-0011	Flauzifop-P-Butyl	24.50%				
	Product Trade Name: Fusilade II	ZT.JU /0				
	EPA Registration Number: 100-1084	-				
	A) Supplied in 1 quart containers in lots of 1 gallons		50	gallons	\$ 263.68	
	B) Supplied in 2.5 gallon containers in lots of 5 gallons		50	gallons		
DOH-39H	Soluble Liquid for Non-Crop Use Containing		50	yanons	ψ Z10.00	ψ 10,730.00
חפנ-חסם	Potassium salt of aminocyclopyrachlor - Potassium salt of 6-amino-5-					
		25%				
	chloro-2-cyclopropyl-4-pyrimidinecarboxylic acic					
	Product Trade Name: Method® 240SL	_				
	EPA Registration Number: 432-1565		F0		A 040.70	ф 4E 000 00
	A) Supplied in 2.5 gallon containers in lots of 5 gallons	1	50	gallons	\$ 318.72	\$ 15,936.00

CRFQ DOT1900000074

Vendors may bid any or all Contract Items. Per Section 3.2.2 of the contract specifications, the Vendor SHALL provide the Product Trade Name and EPA Registration number for each product that the Vendor is bidding whether the Vendor is bidding the Product Trade Name requested or an "or equal" product.

If the Vendor fails to provide the required information, the Vendor's bid will be disqualified for that Contract Item.

	ADJUVANTS			Cost Per	
		Estimated	Unit of	Unit of	Extended
Item #	Description	Quantity	Measure	Measure	Cost
DOH-1A	Water Soluble Blue Liquid Spray Pattern Indicator				
	Product Trade Name: Bullseye	1			
	A) Supplied in 2.5 gallon containers in lots of 5 gallons.	100	gallon	\$ 43.75	\$ 4,375.00
DOH-2A	Diluent with Emulsifiers				
	Product Trade Name: Bark Oil EC and Bark Oil Blue LT				
	Bark Oil EC supplied in 15gal containers in lots of 135 gallons	100	gallon	\$ 13.15	. ,
	Bark Oil Blue LT supplied in 2.5 gallon containers in lots of 5 gallons.	100	gallon	\$ 13.15	\$ 1,315.00
DOH-3A	Non-Ionic Surfactant -90%				
	Product Trade Name: Spreader 90				
	A) Supplied in 2.5 gallon containers in lots of 5 gallons.	100	gallon	\$ 14.75	\$ 1,475.00
DOH-4A	Non-Ionic, Low Foam Penetrating Surfactant with Lecithin				
	Drift Control Agent	_			
	Product Trade Name: Liberate®				
	A) Supplied in 2.5 gallon containers in lots of 5 gallons.	100	gallon	\$ 27.00	\$ 2,700.00
DOH-5A	Concentrate Spray Adjuvant with Lecitech®				
	Methylated Seed Oil	_			
	Product Trade Name: MSO® Concetrate	100		h 44.00	A 4 400 00
D 011 04	A) Supplied in 2.5 gallon containers in lots of 5 gallons.	100	gallon	\$ 11.80	\$ 1,180.00
DOH-6A	Liquid Drift Control Agent	_			
	Product Trade Name: Reign LC		ı		
	A) Supplied in 1 quart containers in lots of 12 quarts.	400	quart	\$ 9.75	\$ 3,900.00
DOH-7A	Granular/Flake Drift Control Agent				
	Product Trade Name:				
	A) Supplied in 32 ounce containers in lots of 12 containers.	48	container		
DOH-8A	Aquatic Surfactant				
	Product Trade Name: Spreader 90				
	A) Supplied in 2.5 gallon containers in lots of 5 gallons.	100	gallon	\$ 14.75	\$ 1,475.00
DOH-9A	Water Soluble Liquid Spray Pattern Indicator				
	Product Trade Name: Turf Trax Blue	1			
	A) Supplied in 2.5 gallon containers in lots of 5 gallons.	100	gallon	\$ 20.00	\$ 2,000.00
DOH-10A	Non-Ionic Sticker Spreader				
	Product Trade Name: Attach	1			
	A) Supplied in 2.5 gallon containers in lots of 5 gallons.	100	gallon	\$ 35.50	\$ 3,550.00
DOH-11A	Ready-to-Use Formula Containing Paraffinic Oil Emulsifiers				
	Product Trade Name: Thinvert RTU or equal				
	A) Supplied in 2.5 gallon containers in lots of 5 gallons.	100	gallon		
	B) Supplied in 15 gallon drum.	100	gallon		
DOH-12A	Miscible-Dispersible Liquid Defoamer (10% Active Ingredient)	_			
	Product Trade Name: Unfoamer		1	_	
	A) Supplied in 1 quart containers in lots of 12 quarts per ctn	120	quarts	\$ 15.00	\$ 1,800.00

STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL CONTRACTS: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, fallure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (*W. Va. Code* §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: Nutric	en Ag Solutions, Inc.			
Authorized Signature:	Tin	n Smith	Date:	2/25/2019
State of Arkansas				
County of Drew	, to-wit:			
Taken, subscribed, and sworn	to before me this 25th da	yor February		, 2019.
My Commission expires		, 20		(
AFFIX SEAL HERE	LYNN MILLINGSION SOCIALISTICS	NOTARY PUBLIC	{&\CL	Hym Welberger
	NOTARL		Pu	rchasing Affidavit (Revised 01/19/2018)
	PUBLIC & SE			
	OUNTY - ARLANIN			

This document will serve as your West Virginia pesticide certification. Please print to carry with you or save on any electronic device. If you have any questions, please call our office at 304-558-2209 or visit the website: https://wvplants.wvda.us.

Visit https://wvplants.wvda.us for pesticide exam and recertification meeting locations and to review your business information.

FOR USE ONLY IN CATEGORIES LISTED

WEST VIRGINIA CERTIFICATION

6,7,12

C05032

Credits

Needed

Expires: 12/31/2019
Commercial Pesticide Applicator
Charles E. Smyth
Nutrien Ag Solutions, Inc.
1850 Touchstone Road

Colonial Heights VA 23834

C05032

Charles E. Smyth

Continuing Education Credits Credits
Credit Information Acquired Required

6-Aquatic Pest Control 56 20 0 Due 12/31/2019
7-Right-of-Way/Industrial 50 20 0 Due 12/31/2020
Weed 12-Pesticide Storage & 21 20 0 Due 12/31/2019

Al +11 L Distribution

NOT TRANSFERABLE **AUTHORIZED REPRESENTATIVE**

REQUEST FOR QUOTATION CRFQ DOT1900000074

Herbicide Products, Adjuvant Products and Miscellaneous Products (6619C038)

8. MISCELLENOUS:

- 8.1 No Substitutions: The Vendor shall supply only Contract Items submitted in response to the Solicitation unless a contract modification is approved in accordance with the provisions contained in this Contract.
- 8.2 Vendor Supply: The Vendor must carry sufficient inventory of the Contract Items being offered to fulfill its obligations under this Contract. By signing its bid, the Vendor certifies that it can supply the Contract Items contained in its bid response.
- 8.3 Reports: The Vendor shall provide quarterly reports and annual summaries to the Agency showing the Contract Items purchased, quantities of Contract Items purchased and the total dollar value of the Contract Items purchased. The Vendor shall also provide reports, upon request, showing the Contract Items purchased during the term of this Contract, the quantity purchased for each of those Contract Items and the total value of purchases for each of those Contract Items. Failure to supply such reports may be grounds for cancellation of this Contract.
- 8.4 Contract Manager: During its performance of this Contract, the Vendor must designate and maintain a primary contract manager responsible for overseeing the Vendor's responsibilities under this Contract. The Contract manager must be available during normal business hours to address any customer service or other issues related to this Contract. The Vendor should list its Contract manager and his or her contact information below.

Contract Manager: Thomas Bowman
Telephone Number: 804-520-0789
Fax Number: 804-520-0089

Email Address: Thomas.Bowman@Nutrien.com



SPREADER-STICKER



Principal Functioning Agents: Pinene (terpene) Polymers, petrolatum, a-(p-Dodecylphenyl)-Omega-hydroxypoly (oxyethylene)

TOTAL CA Reg. No. 34704-50026 WA Reg. No. 34704-05004 Proprietary Protected Technology EPA Est. No. 72-PA-1

KEEP OUT OF REACH OF CHILDREN

ENVIRONMENTAL HAZARDS: This product is not for aquatic use. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

-NET CONTENTS: 2.5 GAL. (9.46 L)





Hazards to Human and Domestic Animals

Avoid contact with skin, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.

Personal Protective Equipment: Wear chemical-resistant gloves, long-sleeved shirt, and long pants, and shoes plus socks as needed.

FIRST AID: If In eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. If swallowed: Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice...

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment

GENERAL INFORMATION

ATTACH® is a spreader sticker adjuvant with non-ionic properties designed to improve the contact, wetting and adhesion of pesticides onto the plant surface. ATTACH forms a soft film, which polymerizes projecting spray, deposits from rainfall erosion, voisility and ultraviolet (UV) degradation. Under most conditions, apply sprays containing ATTACH at least one half hour, during gaylight, before an anticloated rain. Sunlight, direct or indirect, for this time period is needed for the film to set.

DIRECTIONS FOR USE

ATTACH may be used with all products registered (or: agricultural, forestry, ornamental, industrial regetation and non-cropland uses. ATTACH may be applied by ground or aerial spray equipment in concentrate or dilute sprays. GROUND APPLICATION: Dosage per 100 gallons of spray solution. Fundicides, Insecticides, Plant Browth Regulators 4 07 -16 07 Herbicides

AIR APPLICATION: Use 4 oz.-16 oz. per acte.

SOIL APPLIED PESTICIDES: To stabilize and improve performance and retard photo-degradation apply ATTACH at the rate of 1 to 2 pints

PA Right-To-Know: This product contains proprietary ingredient(s).

Fill spray tank one-half full with water and begin agitation. Add pesticides as directed by label and continue filling. Add ATTACH last and

Use this product in accordance with good agronomic practices, which include utilizing proven spray equipment set for proper coverage. Do not make applications when temperatures are too hot. Applications should be made at temperature levels and when other environmental conditions in your area are such that your experience indicates the application will be compatible and will accomplish the desired result. PHYTOTOXICITY PRECAUTION: Under some environmental conditions, some pesticides or pesticide combinations may cause phytotoxicity on growing plants. Adjuvant products such as this product may increase the chance or the intensity of phytotoxicity. Use this product in a manner consistent with individual pesticide product recommendations.

STORAGE AND DISPOSAL

STORAGE: Store in original container. Store above 32°F. Keep container tightly closed. Do not reuse empty container. DISPOSAL: Do not contaminate water, food, or feed by storage or disposal. Dispose of contents/containers on-site or at an approved waste disposal facility. Trible rinse (or equivalent) adding rinse water to spray tank. Offer container for recycling or dispose of container in sanitary landfill, or by other procedures approved by appropriate authorities. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at www.acrecycle.org.

For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC 1-800-424-9300.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

BEFORE BUYING OR USING THIS PRODUCT, read the Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary. LOVELAND PRODUCTS, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, when the product is used in accordance with such Directions for Use under normal conditions of use. LOVELAND PRODUCTS, INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE BUYER'S OR USER'S EXCLUSIVE REMEDY FOR ANY INJURY, LOSS, OR DAMAGE RESULTING FROM THE HANDLING OR USE OF THIS PRODUCT SHALL BE LIMITED TO ONE OF THE FOLLOWING, AT THE ELECTION OF LOVELAND PRODUCTS, INC. OR THE SELLER: DIRECT DAMAGES NOT EXCEEDING THE PURCHASE PRICE OF THE PRODUCT OR REPLACEMENT OF THE PRODUCT. LOVELAND PRODUCTS, INC. AND THE SELLER SHALL NOT BE LIABLE TO THE BUYER OR USER OF THIS PRODUCT FOR ANY CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES, OR DAMAGES IN THE NATURE OF A PENALTY.

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

FORMULATED FOR:

LOVELAND PRODUCTS, INC.

P.O. Box 1286 • Greeley, CO 80632-1286

24-Hour Emergency Phone: 1-800-424-9300

Medical Emergencies: 1-866-944-8565

U.S. Coast Guard National Response Center: 1-800-424-8802

PRODUCT NAME: ATTACH®

CHEMICAL NAME: Pinene (terpene) Polymers, petrolatum, a- (p-Dodecylphenyl) – Omega-hydroxypoly (oxyethylene)

CHEMICAL FAMILY: Non-ionic Spreader-Sticker Adjuvant

CA REG. NO.: 34704-50026 WA REG. NO.: 34704-05004

2. HAZARDS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN - CAUTION - Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Wear chemical resistant gloves.

This product is a yellow to amber liquid with moderate odor. Primary routes of entry are Inhalation, eye contact and skin contact.

3. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Ingredients: Percentage by Weight: CAS No. TLV (Units)

This products contains no hazardous ingredients

4. FIRST AID MEASURES

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5

minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center

or doctor for further treatment advice.

If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow.

Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an

unconscious person.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration. Call a poison

control center or doctor for treatment advice.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565. Have the product label or container with you when calling a poison control center or doctor, or going for treatment.

5. FIRE FIGHTING MEASURES

FLASH POINT (°F/Test Method): >392°F / >200°C
FLAMMABLE LIMITS (LEL & UEL): Not established.

FLAMMABLE LIMITS (LEL & UEL): Not established.

EXTINGUISHING MEDIA: Foam, carbon dioxide, dry chemical, water spray or sand/earth.

HAZARDOUS COMBUSTION PRODUCTS: Will emit oxides of carbon.

SPECIAL FIRE FIGHTING PROCEDURES: Use water spray to cool containers exposed to fire. Remain upwind. Avoid breathing smoke. Wear self-contained breathing apparatus and full protective gear.

UNUSUAL FIRE AND EXPLOSION HAZARDS: If water is used to fight fire or cool containers, dike to prevent runoff contamination of municipal

sewers and waterways.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Eliminate sources of ignition. Dike or impound to keep product out of sewers and watercourses. Absorb spill with inert material and shovel into waste containers for disposal. Wash area with water. Absorb water with inert material and continue this procedure until no odor remains.

CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

7. HANDLING AND STORAGE

HANDLING: Keep containers closed when not in use. Keep away from sources of ignition. Avoid contact with skin and eyes. Do not

breathe fumes or vapor. Keep out of reach of children and animals. After working with this product, thoroughly clean equipment. Wash thoroughly, change clothing, and clean protective equipment. Prevent eating, drinking, tobacco usage, and

equipment. Prevent eating, dinking, tobacco usage,

cosmetic application in work area to minimize exposure.

STORAGE: Store in original container. Store above 32°F (0°C). Keep container tightly closed. Do not reuse empty container. Do not

contaminate water, food, or feed by storage or disposal.

SOLUBILITY: Emulsifies

pH: 6.5-7.5 (5% solution)

EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Mechanical ventilation is preferred.

RESPIRATORY PROTECTION:

Not required.

EYE PROTECTION:

Safety glasses or goggles are suggested but are not required

SKIN PROTECTION:

Wear chemical-resistant gloves and long-sleeved shirt and long pants.

OSHA PEL 8 hr TWA

ACGIH TLV-TWA

Not listed

not listed

PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Yellow to amber liquid with moderate odor

SPECIFIC GRAVITY (Water = 1): 0.92 - 0.94 g/ml BULK DENSITY: 7.67 - 7.84 lbs/gal VAPOR PRESSURE: Not established **BOILING POINT:** Not established

PERCENT VOLATILE (by volume): Not applicable

EVAPORATION RATE: Not applicable These physical data are typical values based on material tested but may vary from sample to sample.

Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: Excessive heat, sources of ignition, and strong oxidizers.

INCOMPATIBILITY: Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Will emit oxides of carbon in a fire situation.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD₅₀ (rat): > 5050 mg/kg Eye Irritation (rabbit): May cause mild irritation

Inhalation LC₅₀ (rat): >5.26 mg/L.

Carcinogenic Potential: None listed in OSHA, NTP, IARC or ACGIH

Acute Dermal LD₅₀ (rabbit): >5050 mg/kg Skin Irritation (rabbit): May cause mild irritation Skin Sensitization (guinea pig): Not a sensitizer.

ECOLOGICAL INFORMATION

This product is not for aquatic use. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.

13. DISPOSAL CONSIDERATIONS

Wastes may be disposed of on-site or at an approved waste disposal facility. Triple rinse (or equivalent) during mixing and loading. Offer container for recycling or dispose of container in a sanitary landfill, or by procedures approved by appropriate authorities. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at http://www.acrecycle.org/. Do not contaminate water, food or feed by storage or disposal.

14. TRANSPORT INFORMATION

DOT Shipping Description: NOT REGULATED BY DOT BY HIGHWAY.

U.S. Surface Freight Classification: ADHESIVES, ADJUVANTS, SPREADERS OR STICKERS (NMFC 4610; CLASS: 60)

Consult appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes.

15. REGULATORY INFORMATION

NFPA & HMIS Hazard Ratings:

3

Health Flammability 0 Instability

NFPA

0 Least 1 Slight Moderate

Health 0 Flammability 0 Reactivity

PPE

HMIS

High Severe

MATERIAL SAFETY DATA SHEET

ATTACH®

SARA Hazard Notification/Reporting

SARA Title III Hazard Category:

Immediate Y Delayed N

Fire N Reactive N Sudden Release of Pressure

<u>N</u>

Reportable Quantity (RQ) under U.S. CERCLA: Not listed

SARA, Title III, Section 313: Not listed RCRA Waste Code: Not listed CA Proposition 65: Not listed.

PA Right-To-Know: This product contains proprietary ingredient(s).

16. OTHER INFORMATION

MSDS STATUS: Sections 4, 7 and 15 revised

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental Health and Safety

®Attach is a registered trademark of Loveland Products, Inc.

Disclaimer and Limitation of Liability: This data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and LOVELAND PRODUCTS, INC. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.



LOW VOLUME BASAL BARK ADJUVANT

PRINCIPAL FUNCTIONING AGENTS:

Petroleum distillates, tall oil fatty acids, nonyiphenoi ethoxylate and constituents ineffective as an adjuvant. 100% TOTAL.

KEEP OUT OF REACH OF CHILDREN



Precautionary Statements: May be fatal if swallowed and enters airways. Wash hands thoroughly after handling. Do not breathe dust/fume/gas/mist/vapours/spray. Wear protective gloves/protective clothes/eye protection/face protection. Do not eat, drink or smoke when using this product. Keep only in original container. Keep container tightly closed. Read label before use. Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not contampate water. Do not allow to enter drains, sewers, or watercourses.

Personal Protective Equipment: Wear chemical splash eyewear, face shield and acid imperreeable gloves, long-sleeve shirt and pants, rubber apron and shoes and socks.

FIRST AID: If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rooming eye. Cap a poison control center or doctor for treatment advice. If on skin or clothing: Take after contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison center or doctor for treatment advice. If swallowed: Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Be NOT induce vomiting. Do not give anything by mouth to an unconscious person. If Inhaled: Nove person to tresh air. It passon is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-860-944-8565.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

GENERAL: Bark Oil Blue LT is engineered for low-volume based bark and stump treatments and is used only with oil-miscible woody plant herbicides with labels that permit dilution with oil. Follow all use directions and precautions on the label of the herbicide being used. Bark Oil Blue LT remains effective at below freezing temperatures.

NET CONTENTS:					
☐ 15 GL. (56.7	L)				



DIRECTIONS FOR USE: Follow the directions on all pesticide labels.

Use only if a low volume basal oil is allowed or not excluded on the pesticide manufacturer's label. In all cases, the pesticide manufacturer's label should be consulted regarding specific adjuvant use recommendations and that rate followed.

Do not pre-mix with pesticides, nutrients or other adjuvants before mixing with water.

If the user does not have experience with the mixture being applied, perform a jar test using the order and amounts in the mixture and perform a phytotoxicity test to ensure crop safety.

Order of Addition

In general, follow the W-A-L-E-S plan when adding herbicides to a tank mix.

- 1. Wettable Powders (WP), then Flowables (F, DF)
- 2. Agitate, then add anti-foaming compounds, buffers
- 3. Liquid and Soluble products
- 4. Emulsifiable concentrates (EC)
- 5. Bark Oil Blue LT and other adjuvants

Prior to mixing, fill spray tank with half of the carrier intended for use, usually water. Then start the sprayer and check to make sure that all verses and gauges work and there is proper tank agitation.

USE RATES

Blend the herbicide with bark Oil Blue LT at a ratio of 5% to 50% herbicide in diluent.
Ratios will vary with the herbicide and spray conjument used. Do not exceed the rate per acre indicated on the herbicide label.

STORAGE AND DISPOSAL

STORAGE: Store tocked up. Stare in a gool well-ventilated place. To avoid product degradation and equipment corrosion, do not use fron, copied or aluminum containers or equipment. Material is hygroscopic and should not be exposed to moissine in order to maintain product integrity. Keep in original container tightly closed. Do not represent the container tightly closed, or other material to be used or consumed by humans or against the container and success the container and success

DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Dispose of contents/container on site or at an approved waste disposal facility. Triple rinse (or equivalent) adding rinse water to spray tank. Other container for recycling or dispose of container in sanitary landfill, or by other procedures approved by appropriate authorities. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your late and local ACRC recycler, visit the ACRC web page at www.acrecycle.org.

for help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC 1-800-424-9300.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

BEFORE BUYING OR USING THIS PRODUCT, read the Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary. LOVELAND PRODUCTS, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, when the product is used in accordance with such Directions for Use under normal conditions of use. LOVELAND PRODUCTS, INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE BUYER'S OR USER'S EXCLUSIVE REMEDY FOR ANY INJURY, LOSS, OR DAMAGE RESULTING FROM THE HANDLING OR USE OF THIS PRODUCT SHALL BE LIMITED TO ONE OF THE FOLLOWING, AT THE ELECTION OF LOVELAND PRODUCTS, INC. OR THE SELLER: DIRECT DAMAGES NOT EXCEEDING THE PURCHASE PRICE OF THE PRODUCT OR REPLACEMENT OF THE PRODUCT. LOVELAND PRODUCTS, INC. AND THE SELLER SHALL NOT BE LIABLE TO THE BUYER OR USER OF THIS PRODUCT FOR ANY CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES, OR DAMAGES IN THE NATURE OF A PENALTY.

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BARK OIL BLUE LT

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FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 PRODUCT IDENTIFIER:

TRADE NAMÉ: BARK OIL BLUE LT

1.2 RECOMMENDED USE: LOW VOLUME BASAL BARK ADJUVANT

1.3 SUPPLIER DETAILS:

LOVELAND PRODUCTS, INC.

P.O. Box 1286 • Greeley, CO 80632-1286

1.4 24-Hour Emergency Phone: 1-800-424-9300 - Medical Emergencies: 1-866-944-8565

U.S. Coast Guard National Response Center: 1-800-424-8802

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to 29 CFR 1910.1200 May be fatal if swallowed and enters airways

Category 1 H304

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2.2 Label elements



Signal word: DANGER

Hazard Statements: H304 - May be fatal if swallowed and enters airways.

H317 - May cause an allergic skin reaction.

Precautionary

Statements: P102 – Keep out of reach of children. P103 – Read label before use.

P233 – Keep container tightly closed. P234 – Keep only in original container.

P260 - Do not breathe dust / fume / gas / mist / vapors / spray.

P264 - Wash thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product. P281 - Use personal protective equipment as required.

(Prevention): Precautionary

Statement: P301+P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331 - Do not induce vomiting.

P302+P352 - IF ON SKIN: Wash with plenty of water for 15 to 20 minutes

P304+P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and

easy to do. Continue rinsing.

Precautionary

Statement:

(Storage): P405 – Store locked up.

(Disposal): P501 – Dispose of contents in container at an approved waste disposal facility in accordance with all

local/regional/national regulations.

2.3 Other hazards

None known

KEEP OUT OF REACH OF CHILDREN -

Appearance and odor: Clear, blue liquid with bubblegum odor.

Potential Health effects

Ingestion

Routes of exposure Eye contact, skin contact, inhalation.

Eyes May cause eye irritation. Skin May be irritating to skin.

Inhalation Exposure to an excessive concentration of vapors, mist, fumes or aerosols may cause respiratory tract discomfort

and/or mild irritation. May be fatal if swallowed.

Target organs Skin. Eyes. Inhalation.

Signs and symptoms Causes irritation to the eyes. May cause irritation to the skin and respiratory system.

Potential environmental effects This product is not expected to be harmful to aquatic life. However, this does not exclude the possibility that large or frequent spills can have harmful or damaging effect on the environment.

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3. COMPOSITION, INFORMATION ON INGREDIENTS

3.2 Mixtures

Other ingredient

Chemical Name: CAS No.

Classification

Concentration

[%]

Aliphatic oil 64742-46-7 Other ingredient Proprietary

Asp Haz. 1; H304

80 – 90% 1 – 5% 1 – 5%

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

General Advice:

Get medical attention if symptoms occur.

Proprietary

Eye contact:

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5

minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin contact:

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or

doctor for treatment advice.

Ingestion:

Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to

swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth

to an unconscious person.

Inhalation:

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable by

mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

4.2 Most Important Symptoms and Effects, Acute and Delayed

Symptoms:

Risk of eye irritation. May cause skin irritation. Irritating to mucous membranes and upper respiratory tract. May be harmful if

inhaled.

4.3 Immediate Medical Attention and Special Treatment

Treatment :

Treat symptomatically. Symptoms may be delayed.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565

Take container, label or product name with you when seeking medical attention.

NOTES TO PHYSICIAN:

No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the

patient.

5. FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:

Suitable Extinguishing Media: Use foam, dry chemical, or carbon dioxide extinguishing media.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Specific Hazards During Firefighting:

During a fire, thermal decomposition products may release toxic and/or hazardous fumes and gases

including oxides of carbon.

5.3 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Special Protective Equipment for Firefighters:

Self-contained breathing apparatus and full protective gear should be worn in fighting large fires involving chemicals. Use alcohol-type or universal-type foam on larger fires. Use water spray to keep

fire exposed containers cool. Keep people away. Isolate fire and deny unnecessary entry.

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Personal Precautions: Avoid inhalation of vapors, fumes, and spray mist and prolonged or repeated contact with skin and eyes.

Ensure adequate ventilation. Wear suitable protective clothing.

6.2 ENVIRONMENTAL PRECAUTIONS

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not contaminate water. Do not allow to enter

drains, sewers, or watercourses.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP

Methods for Clean-Up:

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. After removal flush

contaminated area thoroughly with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to

Remove residual contamination.

Never return spills to original containers for re-use.

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HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:

Advice on Safe Handling:

Avoid inhalation of vapors / spray mist or fumes and contact with eyes, skin and clothing. Do not breathe mist or vapor. Wear personal protective equipment. Do not use in areas without adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling. Do not empty into drains. Handle and open container with care. Use care in handling/storage. Wash before eating, drinking and/or smoking. Eye wash and safety shower on site are recommended.

7.2 CONDITIONS FOR SAFE STORAGE:

Requirements for Storage Areas and Containers:

Store locked up. Store in a cool, well-ventilated place. To avoid product degradation and equipment corrosion, do not use iron, copper or aluminum containers or equipment. Material is hygroscopic and should not be exposed to moisture in order to maintain product integrity. Store in original container tightly closed. Do not reuse empty container. Do not store with food, feed, or other material to be used or consumed by humans or animals. Do not contaminate water supplies. For optimal storage, store between 40° and 90°F (4° and 32°C). Do not contaminate water, food or feed by storage or disposal.

EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS:

OCCUPATIONAL EXPOSURE LIMITS

ACGIH TLVs TWA

Components

Type

Value

OSHA PELs TWA

No data No data

Biological limit values

ACGIH Biological Exposure Indices

Components

Value Specimen

No data

8.2 EXPOSURE CONTROLS:

Engineering Measures

Provide adequate general and local exhaust ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors and spray mists. Provide eyewash station and safety shower.

Individual Protection Measures:

Eve / Face Protection:

Chemical goggles or face shield are recommended.

Skin Protection:

Chemical resistant clothing is recommended. Routinely wash work clothing and protective equipment to remove contaminants. The use of neoprene gloves is recommended. Be aware that the liquid may penetrate the gloves.

Frequent change is advisable.

Respiratory Protection:

In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment. Wear respiratory protection during operations where spraying or misting occurs. Wear air supplied respiratory protection. In the U.S.A., if respirators are used, a program should be in place to assure compliance with 29 CFR 1910.134, the OSHA Respiratory Protection standard. Wear air supplied respiratory protection if exposure concentrations are unknown.

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PHYSICAL AND CHEMICAL PROPERTIES

9.1 APPEARANCE: Liquid

ODOR: Bubblegum. Not determined. ODOR THRESHOLD: COLOR: Blue, clear. No data available MELTING POINT / FREEZING POINT: No data available

BOILING POINT: No data available FLASH POINT: >200°F (>93°C) FLAMMABILILITY (solid, gas): No data available

UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: No data available

VAPOR PRESSURE: No data available SOLUBILITY: No data available

PARTITION CO-EFFICIENT, n-OCTANOL / WATER: No data available

AUTO-IGNITION TEMPERATURE: No data available. DECOMPOSITION TEMPERATURE: Not determined VISCOSITY: No data available SPECIFIC GRAVITY (Water = 1): 0.835 - 0.884 g/ml

BULK DENSITY: 6.96 - 7.38 lbs./gal. / 0.83 - 0.88 kg/L

These physical data are typical values based on material tested but may vary from sample to sample. Note:

Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

10.1 REACTIVITY

Stable

10.2 CHEMICAL STABILITY

Stable under normal temperature conditions

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No reactions known under normal use conditions. Will not polymerize.

10.4 CONDITIONS TO AVOID

None known.

10.5 INCOMPATIBILE MATERIALS

Strong oxidizing agents.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition or combustion may include and are not limited to: oxides of carbon.

11. TOXICOLOGICAL INFORMATION

11.1 LIKELY ROUTES OF EXPOSURE

Eye contact, skin contact, inhalation.

LC₅₀ (rat): 5.00 mg/L LD₅₀ Oral (rat): 4,969 mg/kg LD₅₀ Dermal (rabbit): 3,731 mg/kg Skin Irritation (rabbit): No data available Eye Irritation (rabbit): No data available Specific Target Organ Toxicity: No data available

Aspiration: No data available

Skin Sensitization (guinea pig): No data available

Carcinogenicity: No data available

Germ Cell Mutagenicity: No data available

Interactive Effects: None known

SAFETY DATA SHEET

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12. ECOLOGICAL INFORMATION							
12.1 ECOTOXICITY No data available Ecotoxicological Data				Total Provide			
Components No data available	Sp	oecies		Test Results	**		
No data available							
Drift or runoff may adversely affer Do not apply directly to water. Do not contaminate water when on Do not apply when weather cond	disposing of equipment v	wash water. get area.					
12.2 PERSISTENCE AND DEGRADA Biodegradability: No data a 12.3 BIOACCUMULATIVE POTENTI Bioaccumulation: No data a 12.4 MOBILITY IN SOIL No data available 12.5 OTHER ADVERSE EFFECTS	available AL						
Assessment: No data	available.						
13. DISPOSAL CONSIDERATION	S				-		
Do not contaminate water, for Triple rinse (or equivalent) ad procedures approved by appr Agricultural Container Recycl	13.1 WASTE TREATMENT METHODS Do not contaminate water, food or feed by storage or disposal. Wastes may be disposed of on-site or at an approved waste disposal facility. Triple rinse (or equivalent) adding rinse water to spray tank. Offer container for recycling or dispose of container in sanitary landfill, or by other procedures approved by appropriate authorities. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at www.acrecycle.org.						
14. TRANSPORT INFORMATION							
14.1 LAND TRANSPORT DOT Shipping Description: NO U.S. Surface Freight Classificat		JUVANTS, SPREA	DERS OR STICKE	RS (NMFC 4610; CLASS: 60)			
15. REGULATORY INFORMATION	1						
15.1 SAFETY, HEALTH AND ENVIR	ONMENTAL REGULATI	IONS					
NFPA & HMIS Hazard Ratings:	NFPA		HMIS				
	1 Flammability 0 Instability	0 Least 1 Slight 2 Moderate 3 High 4 Severe	Health Flammabili Reactivity X PPE	ty			
SARA Hazard Notification/Reporting SARA Title III Hazard Category:	Immediate Y Delayed N	Fire Reactive	N N	Sudden Release of Pressure N			
Reportable Quantity (RQ) under U.S. 0 SARA, Title III, Section 313: Not listed RCRA Waste Code: Not listed CA Proposition 65: Not listed.	ERCLA: Not listed.						

SAFETY DATA SHEET

 BARK OIL BLUE LT

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16. OTHER INFORMATION

SDS STATUS: Sections 1.2 and 2 revised

PREPARED BY: Registrations and Regulatory Affairs

™Bark Oil Blue is a trademark of Loveland Products Inc.

REVIEWED BY: Environmental Health and Safety

Disclaimer and Limitation of Liability: This data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and LOVELAND PRODUCTS, INC. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.

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Specimen Label

ELEMENT'3A

Specialty Herbicide

®Trademark of Dow AgroSciences LLC

For the control of woody plants, broadleaf weeds in range and pasture, forests and non-crop areas, including manufacturing and storage sites, rights-of-way such as electrical power lines, communication lines, pipelines, roadsides, railroads, fence rows, non-irrigation ditch banks, and around farm buildings; and applications to grazed areas, and establishment and maintenance of wildlife openings, and in Christmas tree plantations and aquatic sites.

For use in New York State, comply with Section 24(c) Special Local Need labeling for Element 3A, SLN NY-110005.

Precautionary Statements

Hazard to Humans and Domestic Animals

EPA Reg. No. 62719-37

DANGER

Corrosive • Causes Irreversible Eye Damage • Harmful If Swallowed Or Absorbed Through Skin • Prolonged Or Frequently Repeated Skin Contact May Cause Allergic Reaction In Some Individuals

Do not get in eyes or on skin or clothing.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Protective eyewear
- Chemical resistant gloves (≥14 mils) such as butyl rubber, natural rubber, neoprene rubber or nitrile rubber

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the WPS (40 CFR 170.240(d)(4-6), the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

First Aid

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or

First Aid (Cont.)

doctor. Do not give anything by mouth to an unconscious person. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

Note to Applicator: Allergic skin reaction is not expected from exposure to spray mixtures of Element 3A herbicide when used as directed.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

Environmental Hazards

Do not contaminate water when cleaning equipment or disposing of equipment washwaters. Under certain conditions, treatment of aquatic weeds can result in oxygen depletion or loss due to decomposition of dead plants, which may contribute to fish suffocation. This loss can cause fish suffocation. Therefore, to minimize this hazard, do not treat more than one-third to one-half of the water area in a single operation and wait at least 10 to 14 days between treatments. Begin treatment along the shore and proceed outwards in bands to allow fish to move into untreated areas. Consult with the State agency for fish and game before applying to public water to determine if a permit is needed.

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

Physical or Chemical Hazards

Combustible. Do not use or store the product near heat or open flame.

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Read all Directions for Use carefully before applying.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Shoes plus socks
- Protective eyewear
- Chemical-resistant gloves (≥14 mils) such as butyl rubber, natural rubber, neoprene rubber or nitrile rubber

Non-Agricultural Use Requirements

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for Agricultural Pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Entry Restrictions for Non-WPS Uses: For applications to noncropland areas, do not allow entry into areas until sprays have dried, unless applicator and other handler PPE is worn.

Storage and Disposal

Do not contaminate water, food, or feed by storage and disposal. Open dumping is prohibited. **Pesticide Storage:** Store above 28°F or agitate before use.

Pesticide Storage: Store above 28°F or agitate before use.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Storage and Disposal (Cont.)

Nonrefillable containers 5 gallons or less: Container Handling: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable containers 5 gallons or larger:

Container Handling: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

Nonrefillable containers 5 gallons or larger: Container Handling: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

General Information for Forests and Non-Crop Areas

Use Element® 3A specialty herbicide for the control of woody plants and broadleaf weeds in range and pasture, forests and non-crop areas including manufacturing and storage sites, rights-of-way such as electrical power lines, communication lines, pipelines, roadsides, railroads, fence rows, non-irrigation ditch banks, and around farm buildings, and applications to grazed areas, and establishment and maintenance of wildlife openings, and in Christmas tree plantations and aquatic sites.

Obtain Required Permits: Consult with appropriate state or local water authorities before applying this product to public waters. State or local public agencies may require permits.

General Use Precautions and Restrictions

For use in New York State, comply with Section 24(c) Special Local Need labeling for Element 3A, SLN NY-110005.

When applying this product in tank mix combination, follow all applicable use directions, precautions and limitations on each manufacturer's label. Note: If tank mixing with Rodeo® herbicide, mix the Element 3A with at least 75% of the total spray volume desired and ensure that Element 3A is well mixed before adding the Rodeo to avoid incompatibility.

Chemigation: Do not apply this product through any type of irrigation system.

Do not apply Element 3A directly to, or otherwise permit it to come into direct contact with, grapes, tobacco, vegetable crops, flowers, or other desirable broadleaf plants. Do not permit spray mists containing Element 3A to drift onto such plants.

It is permissible to treat non-irrigation ditch banks, seasonally dry wetlands (such as flood plains, deltas, marshes, swamps, or bogs), and transitional areas between upland and lowland sites.

Water treated with Element 3A may not be used for irrigation purposes for 120 days after application or until residue levels of Element 3A are determined by laboratory analysis, or other appropriate means of analysis, to be 1 ppb or less.

Seasonal Irrigation Waters: Element 3A may be applied during the offseason to surface waters that are used for irrigation on a seasonable basis provided that there is a minimum of 120 days between applying Element 3A and the first use of treated water for irrigation purposes, or until residue levels of Element 3A are determined by laboratory analysis, or other appropriate means of analysis, to be 1 ppb or less.

Irrigation Canals/Ditches: Do not apply Element 3A to irrigation canals/ ditches unless the 120-day restriction on irrigation water usage can be observed or residue levels of Element 3A are determined by laboratory analysis, or other appropriate means of analysis, to be 1 ppb or less.

- Do not apply to salt water bays or estuaries.
- Do not apply directly to un-impounded rivers or streams.
- Do not apply on ditches or canals currently being used to transport irrigation water or that will be used for irrigation within 4 months following treatment. It is permissible to treat irrigation and nonirrigation ditch banks.
- Do not apply where runoff water may flow onto agricultural land as injury to crops may result.
- When making applications to control unwanted plants on banks or shorelines of moving water sites, minimize overspray to open water.
- The use of a mistblower is not recommended.
- Apply no more than 2 lb ae of triclopyr (2/3 gallon of Element 3A) per acre per growing season on range and pasture sites, including rightsof-way, fence rows or any area where grazing or harvesting is allowed.
- On forestry sites, Element 3A may be used at rates up to 6 lb ae of triclopyr (2 gallons of Element 3A) per acre per year.
- For all terrestrial use sites other than range, pasture, forestry sites, and grazed areas, the maximum application rate is 9 lb ae of triclopyr (3 gallons of Element 3A) per acre per year.

For use in New York State, comply with Section 24(c) Special Local Need labeling for Element 3A, SLN NY-110005.

Precautions for Potable Water Intakes for Emerged Aquatic Weed Control

See chart below for specific setback distances near functioning potable water intakes. **Note:** Existing potable water intakes which are no longer in use, such as those replaced by potable water wells or connections to a municipal water system, are not considered to be functioning potable water intakes. These setback restrictions do not apply to terrestrial applications made adjacent to potable water intakes.

	Element 3A Application Rate				
Area Treated	2 qt/acre	4 qt/acre	6 qt/acre	8 qt/acre	
(acres)	Setback Distance (ft)				
4	0	200	400	500	
>4 - 8	0	200	700	900	
>8 - 16	0	200	700	1000	
>16	0	200	900	1300	

To apply Element 3A around and within the distances noted above from a functioning potable water intake, the intake must be turned off until the triclopyr level in the intake water is determined to be 0.4 parts per million (ppm) or less by laboratory analysis or immunoassay.

- Recreational Use of Water in Treatment Area: There are no restrictions on use of water in the treatment area for recreational purposes, including swimming and fishing.
- Livestock Use of Water from Treatment Area: There are no restrictions on livestock consumption of water from the treatment area.

Grazing and Haying Restrictions

Except for lactating dairy animals, there are no grazing restrictions following application of this product.

- Grazing Lactating Dairy Animals: Do not allow lactating dairy animals to graze treated areas until the next growing season following application of this product.
- Do not harvest hay for 14 days after application.
- Grazed areas of non-cropland and forestry sites may be spot treated if they comprise no more than 10% of the total grazable area.

Slaughter Restrictions: During the season of application, withdraw livestock from grazing treated grass at least 3 days before slaughter.

Avoiding Injurious Spray Drift

Make applications only when there is little or no hazard from spray drift. Small quantities of spray, which may not be visible, may seriously injure susceptible plants. Do not spray when wind is blowing toward

susceptible crops or ornamental plants that are near enough to be injured. It is suggested that a continuous smoke column at or near the spray site or a smoke generator on the spray equipment be used to detect air movement, lapse conditions, or temperature inversions (stable air). If the smoke layers or indicates a potential of hazardous spray drift, do not spray.

Aerial Application: For aerial application on rights-of-way or other areas near susceptible crops, apply through a Microfoil† or Thru-Valve boom†, or use an agriculturally labeled drift control additive. Other drift reducing systems or thickened sprays prepared by using high viscosity inverting systems may be used if they are made as drift-free as mixtures containing agriculturally labeled thickening agents or applications made with the Microfoil or Thru-Valve boom. Keep spray pressures low enough to provide coarse spray droplets. Spray boom should be no longer than 3/4 of the rotor length. Do not use a thickening agent with the Microfoil or Thru-Valve booms, or other systems that cannot accommodate thick sprays. Spray only when the wind velocity is low (follow state regulations). Avoid application during air inversions. If a spray thickening agent is used, follow all use recommendations and precautions on the product label.

†Reference within this label to a particular piece of equipment produced by or available from other parties is provided without consideration for use by the reader at its discretion and subject to the reader's independent circumstances, evaluation, and expertise. Such reference by Dow AgroSciences is not intended as an endorsement of such equipment, shall not constitute a warranty (express or implied) of such equipment, and is not intended to imply that other equipment is not available and equally suitable. Any discussion of methods of use of such equipment does not imply that the reader should use the equipment other than is advised in directions available from the equipment's manufacturer. The reader is responsible for exercising its own judgment and expertise, or consulting with sources other than Dow AgroSciences, in selecting and determining how to use its equipment.

Spray Drift Management

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications:

- The distance of the outer most operating nozzles on the boom must not exceed 3/4 the length of the rotor.
- Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they should be observed.

The applicator should be familiar with and take into account the information covered in the following Aerial Drift Reduction Advisory. [This information is advisory in nature and does not supersede mandatory label requirements.]

Aerial Drift Reduction Advisory

Information on Droplet Size: The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions).

Controlling Droplet Size:

- Volume Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- nozzles instead of increasing pressure.

 Number of Nozzles Use the minimum number of nozzles that provide uniform coverage.
- Nozzle Orientation Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- Nozzle Type Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

Boom Length: For some use patterns, reducing the effective boom length to less than 3/4 of the rotor length may further reduce drift without reducing swath width.

Application Height: Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

Swath Adjustment: When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.).

Wind: Drift potential is lowest between wind speeds of 2 to 10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. Note: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

Temperature and Humidity: When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions: Applications should not occur during a local, low level temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of the smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Sensitive Areas: The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

Ground Equipment: To aid in reducing spray drift, Element 3A should be used in thickened (high viscosity) spray mixtures using an agriculturally labeled drift control additive, high viscosity invert system, or equivalent as directed by the manufacturer. With ground equipment, spray drift can be reduced by keeping the spray boom as low as possible; by applying 20 gallons or more of spray per acre; by keeping the operating spray pressures at the lower end of the manufacturer's recommended pressures for the specific nozzle type used (low pressure nozzles are available from spray equipment manufacturers); and by spraying when wind velocity is low (follow state regulations). In hand-gun applications, select the minimum spray pressure that will provide adequate plant coverage (without forming a mist). Do not apply with nozzles that produce a fine-droplet spray.

High Volume Leaf-Stem Treatment: To minimize spray drift, do not use pressure exceeding 50 psi at the spray nozzle and keep sprays no higher than brush tops. An agriculturally labeled thickening agent may be used to reduce drift.

Plants Controlled

Woody Plant Species

alder dogwood salt cedar2 elderberry arrowwood salmonberry elm sassafras ash aspen Australian pine scotch broom gallberry hazel sumac bear clover (bearmat) sweetbay magnolia hornbean beech kudzu¹ sweetgum birch locust sycamore blackberry tánoak thimbleberry madrone blackgum maples Brazilian pepper mulberry tulip poplar cascara oaks ceanothus persimmon western hemlock cherry chinquapin pine wild rose poison ivv willow choke cherry poison oák winged elm poplar salt-bush cottonwood

crataegus (hawthorn) salt-bush Douglas fir (*Baccharis* spp.)

¹For complete control, re-treatment may be necessary.

²Use cut surface treatments for best results.

Plants Controlled (Cont.)

Annual and Perennial Broadleaf Weeds

bindweed lambsquarter burdock Mexican petunia Canada thistle plantain purple loosestrife chicory curly dock ragweed dandelion smartweed field bindweed

Spanish needles/ common beggarthicks tansy ragwort tropical soda apple vetch wedelia wild lettuce

Purple Loosestrife (Lythrum salicaria)

Purple loosestrife can be controlled with foliar applications of Element 3A. For broadcast applications, use a minimum of 4 1/2 to 6 lb ae of triclopyr (6 to 8 quarts of Element 3A) per acre. Apply Element 3A when purple loosestrife is at the bud to mid-flowering stage of growth. Follow-up applications for control of regrowth should be made the following year in order to achieve increased control of this weed species. For all applications, a non-ionic surfactant should be added to the spray mixture. Follow all directions and use precautions on the label of the surfactant. Thorough wetting of the foliage and stems is necessary to achieve satisfactory control. A minimum spray volume of 50 gallons per acre is recommended for ground broadcast applications.

If using a backpack sprayer, a spray mixture containing 1% to 1.5% Element 3A or 5 to 7.6 fl oz of Element 3A per 4 gallons of water should be used. All purple loosestrife plants should be thoroughly wetted.

Application Methods

Use Element 3A at rates of 3/4 to 9 lb ae of triclopyr (1/4 to 3 gallons of Element 3A) per acre to control broadleaf weeds and woody plants. In all cases, use the amount specified in enough water to give uniform and complete coverage of the plants to be controlled. Use only water suitable for spraying. Use an agriculturally labeled non-ionic surfactant for all foliar applications. When using surfactants, follow the use directions and precautions listed on the surfactant manufacturer's label. Use the higher concentrations of surfactant in the spray mixture when applying lower spray volumes per acre. The order of addition to the spray tank is water, spray thickening agent (if used), additional herbicide (if used), and Element 3A. Surfactant should be added to the spray tank last or as recommended on the product label. If combined with emulsifiable concentrate herbicides, moderate continuous adequate agitation is required.

Before using any recommended tank mixtures, read the directions and all use precautions on both labels. Note: If tank mixing with Rodeo herbicide, mix the Element 3A with at least 75% of the total spray volume desired and ensure that Element 3A is well mixed before adding the Rodeo to avoid incompatibility.

For best results, apply when woody plants and weeds are actively growing. When hard to control species such as ash, blackgum, choke cherry, elm, maples, oaks, pines, or winged elm are prevalent and during applications made in late summer when the plants are mature and during drought conditions, use the higher rates of Element 3A alone or in combination with Tordon® 101 Mixture specialty herbicide. (Tordon 101 Mixture is a restricted use pesticide. See product label.) Tordon 101 Mixture is not registered for use in the states of California and Florida.

When using Element 3A in combination with 2,4-D 3.8 lb amine, like DMA 4 IVM, or low volatile ester herbicides, generally the higher rates should be used for satisfactory brush control.

Use the higher dosage rates when brush approaches an average of 15 feet in height or when the brush covers more than 60% of the area to be treated. If lower rates are used on hard to control species, resprouting may occur the year following treatment.

On sites where easy to control brush species dominate, rates less than those listed may be effective. Consult State or Local Extension personnel for such information.

Foliage Treatment With Ground Equipment High Volume Foliage Treatment

For control of woody plants, use Element 3A at the rate of 3 to 9 lb ae of triclopyr (1 to 3 gallons of Element 3A) per 100 gallons of spray solution, or Element 3A at 3/4 to 3 lb ae of triclopyr (1 to 4 quarts of Element 3A) may be tank mixed with 1/4 to 1/2 gallons of 2,4-D 3.8 lb amine, like DMA 4 IVM, or low volatile ester or Tordon 101 Mixture and diluted to make 100 gallons of spray solution. Apply at a volume of 100 to 400 gallons of total spray per acre depending upon size and density of woody plants. Coverage should be thorough to wet all leaves, stems, and root collars. (See General Use Precautions and Restrictions.) Do not exceed maximum allowable use rates per acre (see table below). Tordon 101 Mixture is not registered for use in the states of California and Florida.

Maximum Labeled Rate versus Spray Volume per Acre

	Maximum Rate of Element 3A				
Total Spray Volume (gal/ acre)	Range and Pasture Sites ¹ (gal/100 gal of spray)	Forestry Sites ² (gal/100 gal of spray)	Other Non- Cropland Sites ³ (gal/100 gal of spray)		
400	Do not use	0.5	0.75		
300	Do not use	0.67	1		
200	Do not use	1	1.5		
100	0.67	2	3		
50	1.33	4	6		
40	1.67	5	7.5		
30	2.33	6.65	10		
20	3.33	10	15		
10	6.67	20	30		

¹Do not exceed the maximum use rate of 2 lb ae of triclopyr (2/3 gal of Element 3A)/acre/year.

²Do not exceed the maximum use rate of 6 lb ae of triclopyr (2 gal of Element 3A)/acre/year.

3Do not exceed the maximum use rate of 9 lb ae of triclopyr (3 gal of Element 3A)/acre/year on non-cropland use sites other than rangeland, pasture, forestry, and grazed areas.

Low Volume Foliage Treatment

To control susceptible woody plants, apply up to 15 lb ae of triclopyr (5 gallons of Element 3A) in 10 to 100 gallons of finished spray. The spray concentration of Element 3A and total spray volume per acre should be adjusted according to the size and density of target woody plants and kind of spray equipment used. With low volume sprays, use sufficient spray volume to obtain uniform coverage of target plants use Sufficient spray volume to obtain uniform coverage of target plants including the surfaces of all foliage, stems, and root collars (see General Use Precautions and Restrictions). For best results, a surfactant should be added to all spray mixtures. Match equipment and delivery rate of spray nozzles to height and density of woody plants. When treating tall, dense brush, a truck mounted spray gun with spray tips that deliver up to 2 gallons per minute at 40 to 60 psi may be required. Backpack or other types of specialized spray equipment with spray tips that deliver less than 1 gallon of spray per minute may be appropriate for short, low to moderate density brush.

Tank Mixing: As a low volume foliar spray, up to 9 lb ae of triclopyr (3 gallons of Element 3A) may be applied in tank mix combination with 1/2 to 1 gallon of Tordon K or 1 to 2 gallons of Tordon 101 Mixture in 10 to 100 gallons of finished spray. Tordon 101 Mixture and Tordon K are not registered for use in the states of California and Florida.

Broadcast Applications With Ground Equipment

Apply using equipment that will assure uniform coverage of the spray volumes applied. To improve spray coverage, add an agriculturally labeled non-ionic surfactant as described later under Directions for Use. See Maximum Labeled Rate versus Spray Volume per Acre table above for relationship between mixing rate, spray volume and maximum application rate.

Woody Plant Control
Foliage Treatment: Use 6 to 9 lb ae of triclopyr (2 to 3 gallons of Element 3A) in enough water to make 20 to 100 gallons of total spray per acre or 1 1/2 to 3 lb ae of triclopyr (1/2 to 1 gallon of Element 3A) may be combined with 1 to 2 gallons of 2,4-D 3.8 lb amine, like DMA 4 IVM, or low volatile esters or Tordon 101 Mixture in sufficient water to make 20 to 100 gallons of total spray per acre. Tordon 101 Mixture is not registered for use in the states of California and Florida.

Broadleaf Weed Control

Use Element 3A at rates of 1 to 4 1/2 lb ae of triclopyr (1/3 to 1 1/2 gallons of Element 3A) in a total volume of 20 to 100 gallons of water per acre. Apply any time during the growing season. Element 3A at 1 to 3 lb ae of triclopyr (1/3 to 1 gallon of Element 3A) may be tank mixed with 1/2 to 1 gallon of Tordon K, Tordon 101 Mixture or 2,4-D 3.8 lb amine, like DMA 4 IVM, or low volatile herbicides to improve the spectrum of activity. Tordon 101 Mixture and Tordon K are not registered for use in the states of California and Florida.

Aerial Application (Helicopter Only)

Aerial sprays should be applied using suitable drift control. (See General Use Precautions and Restrictions.) Add an agriculturally labeled non-ionic surfactant as described under Directions for Use. See Maximum Labeled Rate versus Spray Volume per Acre table above for relationship between mixing rate, spray volume and maximum application rate.

Foliage Treatment (Non-Grazed Rights-of-Way)

Non-grazed areas: Use 6 to 9 lb ae of triclopyr (2 to 3 gallons of Element 3A) or 3 to 4 1/2 lb ae of triclopyr (1 to 1 1/2 gallons of

Element 3A) in a tank mix combination with 1 to 2 gallons of 2,4-D 3.8 lb amine, like DMA 4 IVM, or low volatile esters or Tordon 101 Mixture, and apply in a total spray volume of 10 to 30 gallons per acre. Use the higher rates and volumes when plants are dense or under drought conditions. Tordon 101 Mixture is not registered for use in the states of California and Florida.

Interspersed areas in non-grazed rights-of-ways that may be subject to grazing may be spot treated if the treated area comprises no more than 10% of the total grazable area.

Cut Surface Treatments

Individual plant treatments such as basal bark and cut surface applications may be used on any use site listed on this label at a maximum use rate of 2.67 gallons of Element 3A (8 lb ae of triclopyr) per acre. These types of applications are made directly to ungrazed parts of plants and, therefore, are not restricted by the grazing maximum rate of 2/3 of a gallon of Element 3A (2 lb ae of triclopyr) per acre.

To control unwanted trees of hardwood species such as elm, maple, oak and conifers in labeled sites, apply Element 3A, either undiluted or diluted in a 1 to 1 ratio with water, as directed below.

With Tree Injector Method

Apply by injecting 1/2 milliliter of undiluted Element 3A or 1 milliliter of the diluted solution through the bark at intervals of 3 to 4 inches between centers of the injector wound. The injections should completely surround the tree at any convenient height. Note: No Worker Protection Standard worker entry restrictions or worker notification requirements apply when this product is injected directly into plants.

With Hack and Squirt Method

Make cuts around the tree trunk at a convenient height with a hatchet or similar equipment so that the cuts overlap slightly and make a continuous circle around the trunk. Spray 1/2 milliliter of undiluted Element 3A or 1 milliliter of the diluted solution into the pocket created between the bark and the inner stern/trunk by each cut.

With Frill or Girdle Method

Make a single girdle through the bark completely around the tree at a convenient height. The frill should allow for the herbicide to remain next to the inner stem and absorb into the plant. Wet the cut surface with undiluted or diluted solution.

Both of the above methods may be used successfully at any season except during periods of heavy sap flow of certain species - for example, maples.

Stump Treatment

Spray or paint the cut surfaces of freshly cut stumps and stubs with undiluted Element 3A. The cambium area next to the bark is the most wital area to wet

Forest Management Applications

For best control from broadcast applications of Element 3A, use a spray volume which will provide thorough plant coverage. Recommended spray volumes are usually 10 to 25 gallons per acre by air or 10 to 100 gallons per acre by ground. To improve spray coverage of spray volumes less than 50 gallons per acre, add an agriculturally labeled non-ionic surfactant as described under Directions for Use. Application systems should be used to prevent hazardous drift to off-target sites. Nozzles or additives that produce larger droplets of spray may require higher spray volumes to maintain brush control.

Forest Site Preparation (Not for Conifer Release)

Use up to 6 lb ae of triclopyr (2 gallons of Element 3A) and apply in a total spray volume of 10 to 30 gallons per acre or Element 3A at 3 to 4 1/2 lb ae of triclopyr (1 to 1 1/2 gallons of Element 3A) may be used with 1 to 2 gallons of Tordon 101 Mixture or 2,4-D 3.8 lb low volatile ester in a tank mix combination in a total spray volume of 10 to 30 gallons per acre. Use a non-ionic agricultural surfactant for all foliar applications as described under Directions for Use. Tordon 101 Mixture is not registered for use in the states of California and Florida.

Note: Conifers planted sooner than one month after treatment with Element 3A at less than 4 lb ae of triclopyr (1 1/3 gallons of Element 3A) per acre or sooner than two months after treatment at 4 to 9 lb ae of triclopyr (1 1/3 to 3 gallons of Element 3A) per acre may be injured. When tank mixtures of herbicides are used for forest site preparation, labels for all products in the mixture should be consulted and the longest recommended waiting period before planting observed.

Directed Spray Applications for Conifer Release

To release conifers from competing hardwoods such as red maple, sugar maple, striped maple, sweetgum, red and white oaks, ash, hickory, alder, birch, aspen, and pin cherry, mix 3 to 6 lb ae of triclopyr (1 to 2 gallons of Element 3A) in enough water to make 100 gallons of spray mixture. To improve spray coverage, add an agriculturally labeled non-ionic surfactant as described under Directions for Use. The spray mixture should be directed onto foliage of competitive hardwoods using knapsack

or backpack sprayers with flat fan nozzles or equivalent any time after hardwoods have reached full leaf size, but before autumn coloration. The majority of treated hardwoods should be less than 6 feet in height to ensure adequate spray coverage. Care should be taken to direct spray away from contact with conifer foliage, particularly foliage of desirable pines.

Note: Spray may cause temporary damage and growth suppression where contact with conifers occurs; however, injured conifers should recover and grow normally. Over-the-top spray applications can kill pines.

Broadcast Applications for Conifer Release in the Northeastern United States

To release spruce, fir, red pine and white pine from competing hardwoods, such as red maple, sugar maple, striped maple, alder, birch (white, yellow or gray), aspen, ash, pin cherry and *Rubus* spp. and perennial and annual broadleaf weeds, use Element 3A at rates of 1 1/2 to 3 lb ae of triclopyr (2 to 4 quarts of Element 3A) per acre alone or with 2,4-D amine, like DMA 4 IVM, or 2,4-D ester to provide no more than 4 lb ae per acre from both products. Apply in late summer or early fall after conifers have formed their over wintering buds and hardwoods are in full leaf and prior to autumn coloration.

Broadcast Applications for Douglas-Fir Release in the Pacific Northwest and California

To release Douglas-fir from susceptible competing vegetation such as broadleaf weeds, alder, blackberry or Scotch broom, apply Element 3A at 1 to 1 1/2 lb ae of triclopyr (1 1/3 to 2 quarts of Element 3A) per acre alone or in combination with 4 lb per acre of atrazine. Mix all sprays in a water carrier with a non-ionic surfactant. Apply in early spring after hardwoods begin growth and before Douglas fir bud break ("early foliar" hardwood stage) or after Douglas fir seasonal growth has "hardened off" (set winter buds) in late summer, but while hardwoods are still actively growing. When treating after Douglas fir bud set, apply prior to onset of autumn coloration in hardwood foliage. **Note:** Treatments applied during active Douglas fir shoot growth (after spring bud break and prior to bud set) may cause injury to Douglas fir trees.

Christmas Tree Plantations

Use Element 3A for the control of woody plants and annual and perennial broadleaf weeds in established Christmas tree plantations. For best results, apply when woody plants and weeds are actively growing. Element 3A does not control weeds which have not emerged at the time of application. If lower rates are used on hard to control woody species, resprouting may occur the year following treatment. Brush over 8 feet tall is difficult to treat efficiently using hand equipment such as backpack or knapsack sprayers. When treating large brush or trees or hard to control species such as ash, blackgum, choke cherry, elm, hazel, madrone, maples, oaks or sweetgum, and for applications made during drought conditions or in late summer when the leaves are mature, use the higher rates of Element 3A or use cut surface application methods. For foliar applications, apply in enough water to give uniform and complete coverage of the plants to be controlled. Applications made under drought conditions may provide less than desirable results.

Use Precautions:

- Do not use on newly seeded grass until well established as indicated by vigorous growth and development of secondary root system and tillering
- Newly seeded turf (alleyways, etc.) should be mowed two or three times before any treatment with Element 3A.
- Do not reseed Christmas tree areas treated with Element 3A for a minimum of three weeks after application.
- Do not use Element 3A if legumes, such as clover, are present and injury cannot be tolerated.

Spray Preparation

The order of addition to the spray tank is water, drift control agent (if used), non-ionic agricultural surfactant and Element 3A. Continue moderate agitation while mixing and spraying. Use a non-ionic agricultural surfactant for all applications. When using surfactants, follow use directions and precautions listed on the manufacturer's label. Use the higher recommended concentrations of surfactant in the spray mixture when applying lower spray volumes per acre. Note: If tank mixing with Rodeo herbicide, mix the Element 3A with at least 75% of the total spray volume desired and ensure that Element 3A is well mixed before adding the Rodeo to avoid incompatibility.

Application

Apply in late summer or early autumn after terminal growth of Christmas trees has hardened of, but before leaf drop of, target weeds. Apply at a rate of 3/4 to 1 3/4 lb ae of triclopyr (2 to 5 pints of Element 3A) per acre as a foliar spray directed toward the base of Christmas trees. Use sufficient spray volume to provide uniform coverage of target plants (20 to 100 gallons per acre). **Do not apply with 2,4-D.** Application rates of Element 3A recommended for Christmas trees will only suppress some well established woody plants that are greater than 2 to 3 years old (see

table below). Broadcast sprays may also be applied in bands between the rows of planted trees. Use spray equipment that will assure uniform coverage of the desired spray volume.

Spray solution from Element 3A can cause needle and branch injury to Christmas trees. To minimize injury to Christmas trees, direct sprays so as to minimize contact with foliage. Blue spruce, white spruce, balsam fir and Frasier fir are less susceptible to injury than white pine and Douglas fir.

Restriction: Apply Element 3A only to established Christmas trees that were planted at least one full year prior to application.

Application Rates and Species Controlled:

	Element 3A	
2 pints/acre (3/4 lb ae of triclopyr)	3 to 4 pints/acre (1 1/2 lb ae of triclopyr)	5 pints/acre (1 3/4 lb ae of triclopyr)
clover dandelion dock, curly lambsquarters lespedeza plantain, broadleaf plantain, buckhorn ragweed, common vetch	bindweed, field (TG) blackberry¹ chicory (s) fireweed ivy, ground lettuce, wild oxalis poison ivy smartweed (TG) thistle, Canada (TG) violet, wild Virginia creeper¹	arrowwood (SDL) aspen beech (SDL) birch (SDL) chinquapin cottonwood (SDL) elderberry grape, wild mulberry (SDL) poplar (SDL) sassafras (SDL) sumac (SDL)

(TG) Top growth control, retreatment may be necessary

(S) Suppression

(SDL) Seedlings less than 2 to 3 years old Use 4 pint per acre rate

Directed Applications

To control hardwoods such as red maple, sugar maple, striped maple, sweetgum, red and white oaks, ash, alder, birch, aspen, and pin cherry, mix 4 to 20 fl oz of Element 3A in enough water to make 3 gallons of spray mixture. For directed applications, do not exceed 6 lb ae of triclopyr (2 gallons of Element 3A) per acre per year. To improve coverage, add a non-ionic agricultural surfactant to the spray. This spray mixture should be directed onto foliage of competitive hardwoods using knapsack or backpack sprayers with flat fan nozzles or equivalent any time after hardwoods have reached full leaf size, but before autumn coloration (when plants are actively growing). The majority of treated hardwoods should be less than 8 feet in height to ensure adequate spray coverage. Note: To prevent Christmas tree injury, care should be taken to direct spray away from contact with Christmas tree foliage.

Cut Surface Treatments

When treating large brush or trees or hard to control species such as ash. blackgum, choke cherry, elm, hazel, madrone, maples, oaks, salt cedar or sweetgum, and for applications made during drought conditions or in late summer when the leaves are mature, use cut surface treatments. (See directions for Cut Surface Treatments in preceding section of this label.)

Wetland Sites in Forests and Non-Crop Areas

Element 3A may be used within forests and non-crop sites to control target vegetation in and around standing water sites, such as marshes, wetlands, and the banks of ponds and lakes and transition areas between upland and lowland sites.

For control of woody plants and broadleaf weeds in these sites, follow use directions and application methods on this label for forestry and non-

Use Precautions:

Minimize overspray to open water when treating target vegetation in and around non-flowing, quiescent or transient water. When making applications to control unwanted plants on banks or shorelines of flowing water, minimize overspray to open water. Note: Consult local public water control authorities before applying this product in and around public water. Permits may be required to treat such areas.

Terms and Conditions of Use

If terms of the following Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use and Limitations of Remedies.

Warranty Disclaimer

Dow AgroSciences warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. Dow AgroSciences MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

Inherent Risks of Use

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperature, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Dow AgroSciences or the seller. All such risks shall be assumed by buyer.

Limitation of Remedies

The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at Dow AgroSciences' election, one of the following:

- 1. Refund of purchase price paid by buyer or user for product bought, or
- Replacement of amount of product used.

Dow AgroSciences shall not be liable for losses or damages resulting from handling or use of this product unless Dow AgroSciences is promptly notified of such loss or damage in writing. In no case shall Dow AgroSciences be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer, Inherent Risks of Use, and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Dow AgroSciences or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

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Produced for Dow AgroSciences LLC 9330 Zionsville Road Indianapolis, IN 46268

Label Code: D02-338-003 Replaces Label: D02-338-002 LOES Number: 010-02148 EPA accepted 01/03/06

Revisions:

- 1. Revise list of use sites to add range and pasture and aquatic sites; remove "industrial" before non-crop; remove sentence: Use within production forests and industrial non-crop sites (including those listed above) may include applications to control target vegetation in and around standing water sites, such as marshes, wetlands, and the banks of ponds and lakes.
- Add reference to New York 24(c) label Remove "production" before "forests" and "industrial" before "noncrop" throughout label.
- Use Precautions: add Note for tank mixing with Rodeo.
- 5. Maximum Rate table: change "rangeland" to "range" Application Methods: add note for tank mixing with Rodeo.
- Move section "Cut Surface Treatments" to be under the "Foliage Treatment (Non-Grazed Rights-of-Way" section
- 8. Spray Preparation: add Note for tank mixing with Rodeo



SAFETY DATA SHEET

DOW AGROSCIENCES LLC

Product name: ELEMENT™ 3A Herbicide Issue Date: 04/04/2016

Print Date: 04/04/2016

DOW AGROSCIENCES LLC encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

1. IDENTIFICATION

Product name: ELEMENT™ 3A Herbicide

Recommended use of the chemical and restrictions on use

Identified uses: End use herbicide product

COMPANY IDENTIFICATION

DOW AGROSCIENCES LLC 9330 ZIONSVILLE RD INDIANAPOLIS IN 46268-1053 UNITED STATES

Customer Information Number:

800-992-5994 info@dow.com

EMERGENCY TELEPHONE NUMBER

24-Hour Emergency Contact: 800-992-5994 **Local Emergency Contact:** 352-323-3500

2. HAZARDS IDENTIFICATION

Hazard classification

This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Flammable liquids - Category 3 Eye irritation - Category 2A

Specific target organ toxicity - repeated exposure - Category 2

Label elements Hazard pictograms







Product name: ELEMENT™ 3A Herbicide Issue Date: 04/04/2016

Signal word: WARNING!

Hazards

Flammable liquid and vapour. Causes serious eye irritation.

May cause damage to organs (Kidney) through prolonged or repeated exposure.

Precautionary statements

Prevention

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ ventilating/ lighting/ equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

Wash skin thoroughly after handling.

Wear protective gloves/ eye protection/ face protection.

Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Get medical advice/ attention if you feel unwell.

If eye irritation persists: Get medical advice/ attention.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage

Store in a well-ventilated place. Keep cool.

Disposal

Dispose of contents/ container to an approved waste disposal plant.

Other hazards

No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature: Mixture This product is a mixture.

Component	CASRN	Concentration	
Triclopyr Triethylamine Salt	57213-69-1	44.4%	
Ethanol	64-17-5	2.1%	
Alkylphenol alkoxylate	69029-39-6	1.0%	
Balance	Not available	52.5%	

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4. FIRST AID MEASURES

Description of first aid measures

General advice: First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Inhalation: Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control center or doctor for treatment advice.

Skin contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Eye contact: Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice. Suitable emergency eye wash facility should be immediately available.

Ingestion: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed: Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

Indication of any immediate medical attention and special treatment needed

Notes to physician: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or doctor, or going for treatment.

5. FIREFIGHTING MEASURES

Suitable extinguishing media: To extinguish combustible residues of this product use water fog, carbon dioxide, dry chemical or foam. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. General purpose synthetic foams (including AFFF type) or protein foams are preferred if available. Alcohol resistant foams (ATC type) may function.

Unsuitable extinguishing media: No data available

Special hazards arising from the substance or mixture

Hazardous combustion products: Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds. Combustion products may include and are not limited to: Nitrogen oxides. Hydrogen chloride. Carbon monoxide. Carbon dioxide.

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Product name: ELEMENT™ 3A Herbicide

Unusual Fire and Explosion Hazards: This material will not burn until the water has evaporated. Residue can burn. May produce flash fire. Vapors are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur. If exposed to fire from another source and water is evaporated, exposure to high temperatures may cause toxic fumes.

Advice for firefighters

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Stay upwind. Keep out of low areas where gases (fumes) can accumulate. Eliminate ignition sources. To extinguish combustible residues of this product use water fog, carbon dioxide, dry chemical or foam. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage. Review the "Accidental Release Measures" and the "Ecological Information" sections of this (M)SDS.

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Evacuate area. Keep unnecessary and unprotected personnel from entering the area. Keep personnel out of low areas. Keep upwind of spill. Ventilate area of leak or spill. No smoking in area. Eliminate all sources of ignition in vicinity of spill or released vapor to avoid fire or explosion. Vapor explosion hazard. Keep out of sewers. Refer to section 7, Handling, for additional precautionary measures. Eliminate all sources of ignition in vicinity of spill or released vapor to avoid fire or explosion. Ground and bond all containers and handling equipment. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

Methods and materials for containment and cleaning up: Contain spilled material if possible. Pump with explosion-proof equipment. If available, use foam to smother or suppress. Small spills: Absorb with materials such as: Clay. Dirt. Sand. Sweep up. Collect in suitable and properly labeled containers. Large spills: Contact Dow AgroSciences for clean-up assistance. See Section 13, Disposal Considerations, for additional information.

7. HANDLING AND STORAGE

Precautions for safe handling: Keep away from heat, sparks and flame. Keep out of reach of children. No smoking, open flames or sources of ignition in handling and storage area. Containers, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers. Do not get in eyes. Avoid contact with skin and clothing. Avoid breathing vapor or mist. Do not swallow. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation. Electrically ground and bond all equipment. Vapors are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur. Use of non-sparking or explosion-proof equipment may be necessary,

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depending upon the type of operation. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

Conditions for safe storage: Store in a dry place. Store in original container. Keep container tightly closed when not in use. Do not store near food, foodstuffs, drugs or potable water supplies. Minimize sources of ignition, such as static build-up, heat, spark or flame.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits are listed below, if they exist.

Component	Regulation	Type of listing	Value/Notation
Triclopyr Triethylamine Salt	Dow IHG	TWA	2 mg/m3
	Dow IHG	TWA	SKIN, DSEN, BEI
Ethanol	ACGIH	TWA	1,000 ppm
	ACGIH	STEL	1,000 ppm
	OSHA Z-1	TWA	1,900 mg/m3 1,000
			ppm
	CAL PEL	PEL	1,900 mg/m3 1,000
			ppm
Alkylphenol alkoxylate	Dow IHG	TWA	2 mg/m3
• •			

RECOMMENDATIONS IN THIS SECTION ARE FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD SEE THE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING.

Exposure controls

Engineering controls: Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

Individual protection measures

Eye/face protection: Use chemical goggles.

Skin protection

Hand protection: Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Examples of preferred glove barrier materials include: Butyl rubber. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl chloride ("PVC" or "vinyl"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Other protection: Wear clean, body-covering clothing.

Respiratory protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator.

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The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state

Liquid.

Color

Pink

Odor

Ammoniacal

Odor Threshold

No test data available

pН

9.5 10% pH Electrode

Melting point/range

Not applicable

Freezing point

No test data available

Boiling point (760 mmHg)

No test data available

Flash point

closed cup 43 °C (109 °F) Setaflash Closed Cup ASTM

D3828

Evaporation Rate (Butyl Acetate

= 1)

Flammability (solid, gas)

No data available

Lower explosion limit

No test data available

No test data available

Upper explosion limit

No test data available

Vapor Pressure

Not applicable

Relative Vapor Density (air = 1)

Not applicable

Relative Density (water = 1)

1.1385 at 20 °C (68 °F) Digital Density Meter (Oscillating Coil)

Water solubility

Soluble

Partition coefficient: n-

octanol/water

No data available

Auto-ignition temperature

No test data available No test data available

Decomposition temperature Dynamic Viscosity

12.5 mPa.s at 25 °C (77 °F)

Kinematic Viscosity

No test data available

Explosive properties

No Thermal

Oxidizing properties

No

Liquid Density

1.1385 g/cm3 at 20 °C (68 °F) Digital density meter

Molecular weight

No data available

Surface tension

38.5 mN/m at20 °C (68 °F) EC Method A5

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

Reactivity: No dangerous reaction known under conditions of normal use.

Product name: ELEMENT™ 3A Herbicide

Issue Date: 04/04/2016

Chemical stability: Thermally stable at recommended temperatures and pressures.

Possibility of hazardous reactions: Polymerization will not occur.

Conditions to avoid: Active ingredient decomposes at elevated temperatures.

Incompatible materials: Avoid contact with: Oxidizers.

Hazardous decomposition products: Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Hydrogen chloride. Nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Toxicological information appears in this section when such data is available.

Acute toxicity

Acute oral toxicity

Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury.

As product:

LD50, Rat, female, 4,100 mg/kg

Acute dermal toxicity

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

As product:

LD50, Rabbit, male and female, > 5,000 mg/kg

Acute inhalation toxicity

No adverse effects are anticipated from single exposure to mist. Excessive exposure may cause irritation to upper respiratory tract (nose and throat).

As product:

LC50, Rat, male and female, 4 Hour, Mist, > 5.4 mg/l

Maximum attainable concentration.

No deaths occurred at this concentration.

Skin corrosion/irritation

Brief contact is essentially nonirritating to skin.

Serious eye damage/eye irritation

May cause moderate eye irritation.

May cause moderate corneal injury.

Sensitization

Did not demonstrate the potential for contact allergy in mice.

For respiratory sensitization:

Product name: ELEMENT™ 3A Herbicide

No relevant data found.

Specific Target Organ Systemic Toxicity (Single Exposure)

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

Specific Target Organ Systemic Toxicity (Repeated Exposure)

For the active ingredient(s):

In animals, effects have been reported on the following organs:

Kidney.

For the minor component(s):

In animals, effects have been reported on the following organs:

Kidney.

Liver.

Carcinogenicity

For similar active ingredient(s). Triclopyr. Did not cause cancer in laboratory animals.

Teratogenicity

For the active ingredient(s): Has been toxic to the fetus in laboratory animals at doses toxic to the mother. Did not cause birth defects in laboratory animals.

For the minor component(s): Has caused birth defects in lab animals at high doses.

Reproductive toxicity

For similar active ingredient(s). Triclopyr. In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.

Mutagenicity

In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

Aspiration Hazard

Based on physical properties, not likely to be an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicological information appears in this section when such data is available.

Toxicity

Acute toxicity to fish

Based on information for a similar material:

Material is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/L in the most sensitive species tested).

LC50, Oncorhynchus mykiss (rainbow trout), 96 Hour, 400 mg/l, OECD Test Guideline 203 or Equivalent

LC50, Lepomis macrochirus (Bluegill sunfish), semi-static test, 96 Hour, > 100 mg/l

Acute toxicity to aquatic invertebrates

EC50, eastern oyster (Crassostrea virginica), static test, 48 Hour, 56 - 87 mg/l, Method Not Specified.

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LC50, Daphnia magna (Water flea), static test, 48 Hour, > 1,000 mg/l, OECD Test Guideline 202 or Equivalent

Acute toxicity to algae/aquatic plants

ErC50, Pseudokirchneriella subcapitata (green algae), 72 Hour, Growth rate inhibition, 107 mg/l, OECD Test Guideline 201 or Equivalent

ErC50, blue-green alga Anabaena flos-aquae, 72 Hour, Growth inhibition, > 100 mg/l

EC50, Lemna gibba, 7 d, Growth inhibition, > 100 mg/l

Based on information for a similar material: ErC50, Myriophyllum spicaturn, 14 d, 0.241 mg/l

Based on information for a similar material: NOEC, Myriophyllum spicaturn, 14 d, 0.0191 mg/l

Persistence and degradability

Triclopyr Triethylamine Salt

Biodegradability: For similar active ingredient(s). Triclopyr. Biodegradation under aerobic static laboratory conditions is high (BOD20 or BOD28/ThOD > 40%). For similar active ingredient(s). Triclopyr. Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

Ethanol

Biodegradability: Material is readily biodegradable. Passes OECD test(s) for ready

biodegradability. 10-day Window: Pass Biodegradation: > 70 % Exposure time: 5 d

Method: OECD Test Guideline 301D or Equivalent

Theoretical Oxygen Demand: 2.08 mg/mg

Photodegradation

Test Type: Half-life (indirect photolysis)

Sensitizer: OH radicals
Atmospheric half-life: 2.99 d

Method: Estimated.

Alkylphenol alkoxylate

Biodegradability: Biodegradation under aerobic laboratory conditions is below detectable

limits (BOD20 or BOD28/ThOD < 2.5%).

Theoretical Oxygen Demand: 2.35 mg/mg

Chemical Oxygen Demand: 1.78 mg/mg

Balance

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Biodegradability: No relevant data found.

Bioaccumulative potential

Triclopyr Triethylamine Salt

Bioaccumulation: For similar active ingredient(s). Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Ethanol

Bioaccumulation: Bioaccumulation is unlikely. Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient: n-octanol/water(log Pow): -0.31 Measured

Alkylphenol alkoxylate

Bioaccumulation: No bioconcentration is expected because of the relatively high water solubility. May foam in water.

Balance

Bioaccumulation: No relevant data found.

Mobility in soil

Triclopyr Triethylamine Salt

For similar active ingredient(s).

Potential for mobility in soil is very high (Koc between 0 and 50).

Ethanol

Potential for mobility in soil is very high (Koc between 0 and 50). **Partition coefficient(Koc):** 1.0 Estimated.

Alkylphenol alkoxylate

No data available.

Balance

No relevant data found.

13. DISPOSAL CONSIDERATIONS

Disposal methods: If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

14. TRANSPORT INFORMATION

DOT

Issue Date: 04/04/2016

Product name: ELEMENT™ 3A Herbicide

Proper shipping name Combustible liquid, n.o.s.(Triclopyr Triethylamine Salt,

UN number NA 1993 Class CBL Packing group Ш

Classification for SEA transport (IMO-IMDG):

Proper shipping name FLAMMABLE LIQUID, N.O.S. (Triclopyr Triethylamine Salt,

Ethanol)

UN number UN 1993

Class 3 Packing group Ш

Triclopyr Triethylamine Salt Marine pollutant

Transport in bulk Consult IMO regulations before transporting ocean bulk

according to Annex I or II of MARPOL 73/78 and the

IBC or IGC Code

Classification for AIR transport (IATA/ICAO):

Proper shipping name Flammable liquid, n.o.s. (Triclopyr Triethylamine Salt, Ethanol)

UN number UN 1993 Class 3

Ш Packing group

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

OSHA Hazard Communication Standard

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Fire Hazard

Acute Health Hazard

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313

CASRN Components 57213-69-1 Triclopyr Triethylamine Salt

Product name: ELEMENT™ 3A Herbicide

Pennsylvania Worker and Community Right-To-Know Act:

The following chemicals are listed because of the additional requirements of Pennsylvania law:

Components

CASRN

Ethanol 64-17-5

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

United States TSCA Inventory (TSCA)

This product contains chemical substance(s) exempt from U.S. EPA TSCA Inventory requirements. It is regulated as a pesticide subject to Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) requirements.

Federal Insecticide, Fungicide and Rodenticide Act

EPA Registration Number: 62719-037

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

DANGER

Corrosive

Causes irreversible eye damage

Harmful if swallowed or absorbed through skin

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

16. OTHER INFORMATION

Hazard Rating System

NFPA

Health	Fire	Reactivity
3	2	0

Revision

Identification Number: 101199615 / A211 / Issue Date: 04/04/2016 / Version: 9.0

DAS Code: XRM-3724

Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

Legend

ACGIH	USA. ACGIH Threshold Limit Values (TLV)
CAL PEL	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
Dow IHG	Dow Industrial Hygiene Guideline

Issue Date: 04/04/2016

OSHA Z-1	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air
	Contaminants
PEL	Permissible exposure limit
SKIN, DSEN, BEI	Absorbed via Skin, Skin Sensitizer, Biological Exposure Indice
STEL	Short-term exposure limit
TWA	8-hour, time-weighted average

Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

DOW AGROSCIENCES LLC urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.

Specimen Label





SPECIALTY HERBICIDE

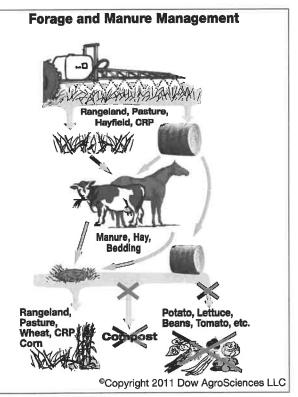
®Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

- For control of annual and perennial broadleaf weeds including invasive and noxious weeds, certain annual grasses, and certain woody plants and vines, on:
 - rangeland, permanent grass pastures (including grasses grown for hay*), Conservation Reserve Program (CRP)
 - non-crop areas for example, airports, barrow ditches, communication transmission lines, electric power and utility
 rights-of-way, fencerows, gravel pits, industrial sites, military sites, mining and drilling areas, oil and gas pads, nonirrigation ditch banks, parking lots, petroleum tank farms, pipelines, roadsides, railroads, storage areas, dry storm water
 retention areas, substations, unimproved rough turf grasses; and
 - natural areas (open space) for example, campgrounds, parks, prairie management, trailheads and trails, recreation
 areas, wildlife openings, and wildlife habitat and management areas including seasonally dry flood plains, deltas,
 marshes, pairie potholes, or vernal pools;
 - including grazed areas in and around these sites.

*Hay from grass treated with Milestone within the preceding 18-months can only be used on the farm or ranch where the product is applied unless allowed by supplemental labeling

IMPORTANT USE PRECAUTIONS AND RESTRICTIONS TO PREVENT INJURY TO DESIRABLE PLANTS

- Carefully read the section "Restrictions in Hay or Manure Use."
- It is mandatory to follow the "Use Precautions and Restrictions" section of this label.
- Manure and urine from animals consuming grass or hay treated with this product may contain enough aminopyralid to cause injury to sensitive broadleaf plants.
- Hay can only be used on the farm or ranch where product is applied unless allowed by supplemental labeling.
- Consult with a Dow AgroSciences representative if you do not understand the "Use Precautions and Restrictions".
 Call [1-(800) 263-1196] Customer Information Group.



Not for Sale, Sale into, Distribution, and/or Use in Nassau and Suffolk counties of New York State.

Not For Sale, Distribution, or Use in the San Luis Valley of Colorado.

GROUP	4	HERBICIDE
Active Ingredient:		
Triisopropanolammonium sa	alt of 2-pyridine -3 6-dichloro-	40.6%
Other Ingredients		<u>59.4%</u>
Total		

Acid Equivalent: aminopyralid (2-pyridine carboxylic acid, 4-amino-3,6-dichloro-) - 21.1% - 2 lb/gal

Container Use Directions





back scale as quide.



Precautionary Statements

Hazards to Humans and Domestic Animals

EPA Reg. No. 62719-519

CAUTION

Causes Moderate Eye Irritation

Avoid contact with eyes or clothing.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside
 of gloves before removing. As soon as possible, wash thoroughly and
 change into clean clothing.

First Aid

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

Environmental Hazards

Do not apply directly to water. Take care to minimize the incidental overspray along the shoreline when applying to terrestrial plants at the water's edge or to water in areas where surface water is present. Do not apply directly to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rineste.

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Application around a cistern or well may result in contamination of drinking water or groundwater.

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Read all Directions for Use carefully before applying.

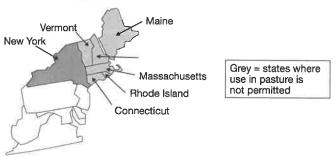
This product is not intended for reformulation or repackaging into other end-use products.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Not for Sale, Sale into, Distribution, and/or Use in Nassau and Suffolk counties of New York State.

Not For Sale, Distribution, or Use in the San Luis Valley of Colorado.

Not for use on pastures in Connecticut, Maine, Massachusetts, New Hampshire, New York, Rhode Island, and Vermont. All other labeled uses are permitted in these states including grazed areas in and around these sites.



Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about Personal Protective Equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves made of any waterproof material as polyethylene or polyvinyl chloride
- Shoes plus socks
- Protective eyewear

Non-Agricultural Use Requirements

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for Agricultural Pesticides (40 CFR Part 170). The WPS does not pertain to non-agricultural use on sites, such as, rangeland, permanent grass pastures, or non-cropland. See the Agricultural Use Requirements section below for information where the WPS applies.

Entry Restrictions for Non-WPS Uses: For applications on rangeland and permanent grass pastures (not harvested for hay) and non-cropland areas, do not enter or allow worker entry into treated areas until sprays have dried.

Storage and Disposal

Do not contaminate water, food, feed or fertilizer by storage or disposal. Open dumping is prohibited.

Pesticide Storage: If this product is exposed to subfreezing temperatures, the active ingredient may crystallize and settle out of solution. Under these conditions the product should be warmed to at least 40°F and agitated well to dissolve any crystallized active ingredient prior to use.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Nonrefillable containers 5 gallons or less:

Container Handling: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Storage and Disposal (Cont.)

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable containers larger than 5 gallons:
Container Handling: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

Nonrefillable containers larger than 5 gallons: Container Handling: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Resistance Management Guidelines

- Development of plant populations resistant to this herbicide mode of action is usually not a problem on rangeland, permanent grass pastures, Conservation Reserve Program (CRP), or non-cropland sites since these sites receive infrequent pesticide applications.
- In croplands, use an effective integrated pest management (IPM) program, integrating tillage or other mechanical methods, crop rotation or other cultural control methods into weed control programs whenever practical.
- Similar looking biotypes of a given weed species occurring in a treated area may vary in their susceptibility to a herbicide. Application of a herbicide below its labeled rate may allow more tolerant weeds to survive and a shift to more tolerant biotypes within the treated area.
- Where identified, spreading of resistant weeds to other fields may be prevented by cleaning harvesting and tillage equipment before moving to other areas and by planting weed-free seed.
- Contact your extension specialist, certified crop consultant, or Dow AgroSciences representative for the latest resistance management information.

Use Precautions

Applications made during periods of intense rainfall, to soils saturated with water, surfaces paved with materials such as asphalt or concrete, or soils through which rainfall will not readily penetrate may result in runoff and movement of Milestone. Injury to crops may result if treated soil and/or runoff water containing Milestone is washed, or moved onto land used to produce crops. Exposure to Milestone may injure or kill susceptible crops and other plants, such as grapes, soybeans, tobacco, sensitive ornamentals.

Grass revegetation:

 Milestone can be used to control broadleaf plants in grass revegetation programs. Consult Dow AgroSciences' literature for more details about Milestone applications and grass stand establishment.

Application before seeding grasses

- Milestone can be applied to control broadleaf weeds prior to grass planting. Grass seed germination and seedling development can be adversely effected by many factors such as seed viability and seedling vigor, soil condition (sub-optimal soil temperatures or soil water content), weather after planting, seedbed preparation and seed placement, disease, insects, or animals. Milestone applications will help to reduce competition from weeds and improve the chance for successful grass stand establishment. Some grass species are more sensitive to Milestone; consult Dow AgroSciences' literature for more details.
- Postemergence applications on grass: During the season of establishment, Milestone should be applied only after perennial grasses are well established (have developed a good secondary root system and show good vigor. Most perennial grasses are tolerant to Milestone at this stage of development. Milestone may suppress certain established grasses, such as smooth bromegrass (*Bromus inermis*), especially when plants are stressed by adverse environmental conditions. Plants should recover from this transient suppression with the onset of environmental conditions favorable to grass growth and upon release from weed competition.
- Seeding Broadleaf Plants (Forbs) and Wildflowers Milestone can be applied in the summer to control broadleaf weeds prior to forb planting. Forbs can be seeded 90 days after a summer application as a dormant fall planting or the following spring. Consult Dow AgroSAciences literature for details.
- Field Bioassay Instructions: In fields previously treated with this product, plant short test rows of the intended rotational crop across the original direction of application in a manner to sample variability in field conditions such as soil texture, soil organic matter, soil pH, rainfall pattern or drainage. The field bioassay can be initiated one year after the last application of aminopyralid in that field. Observe the test crop for symptoms of herbicidal activity, such as poor stand (effect on seed germination), chlorosis (yellowing), epinasty, and necrosis (dead leaves or shoots), or stunting (reduced growth). If herbicidal symptoms do not occur, the test crop can be grown. If there is apparent herbicidal activity, do not plant the field to the intended rotational crop; plant only to wheat, forage grasses, native grasses or grasses grown for hay.

Consult with a Dow AgroSciences representative if you do not understand the "Use Precautions and Restrictions." Call (1-800-263-1196) for more information.

Pasture and Rangeland Restrictions

- . Do not use grasses treated with Milestone in the preceding 18-months for hay intended for export outside the United States.
- Hay from areas treated with Milestone in the preceding 18-months CAN NOT be distributed or made available for sale off the farm or ranch where harvested unless allowed by supplemental labeling.
- . Hay from areas treated with Milestone in the preceding 18-months CAN NOT be used for silage, haylage, baylage and green chop unless allowed by supplemental labeling.
- Do not move hay made from grass treated with Milestone within the preceding 18-months off farm unless allowed by supplemental labeling.
- Do not use hay or straw from areas treated with Milestone within the preceding 18-months or manure from animals feeding on hay treated with Milestone in compost.
- Do not use grasses treated with Milestone in the preceding 18-months for seed production.

Restrictions for All Uses

Maximum Application Rate: On all labeled use sites do not broadcast apply more than 7 fl oz per acre of Milestone per year. The total amount of Milestone applied broadcast, as a re-treatment, and/or spot treatment cannot exceed 7 fl oz per acre per year. Spot treatments may be applied at an equivalent broadcast rate of up to 0.22 lb acid equivalent (14 fl oz of Milestone) per acre per year; however, not more than 50% of an acre may be treated at that rate. Do not apply more than a total of 0.11 lb acid equivalent (7 fl oz) per acre of Milestone per year as a result of broadcast, spot or repeat applications.

Obtain Required Permits: Consult with appropriate state or local water authorities before applying this product around public waters. State or local public agencies may require permits.

- Avoiding Injury to Non-Target Plants: Do not aerially apply Milestone within 50 feet of a border downwind (in the direction of wind movement), or allow spray drift to come in contact with, any broadleaf crop or other desirable broadleaf plants, including, but not limited to, alfalfa, cotton, dry beans, flowers, grapes, lettuce, potatoes, radishes, soybeans, sugar beets, sunflowers, tobacco, tomatoes or other broadleaf or vegetable crop, fruit trees, ornamental plants, or soil where sensitive crops are growing or will be planted. Avoid application under conditions that may allow spray drift because very small quantities of spray may seriously injure susceptible crops. Read and consider the "Precautions for Avoiding Spray Drift and Spray Drift Advisory" to help minimize the potential for spray drift.
- Chemigation: Do not apply this product through any type of irrigation system.
- Do not contaminate water intended for irrigation or domestic purposes. Do not treat inside banks or bottoms of irrigation ditches, either dry or containing water, or other channels that carry water that may be used for irrigation or domestic purposes.
- Do not apply this product to lawns, turf, ornamental plantings, urban walkways, driveways, tennis courts, golf courses, athletic fields, commercial sod operations, or other high-maintenance, fine turfgrass areas, or similar areas.
- Trees adjacent to or in a treated area can occasionally be affected by root uptake of Milestone. Do not apply Milestone within the root zone of desirable trees unless such injury can be tolerated. Use special caution near roses, and leguminous trees such as locusts, redbud, mimosa, and caragana.
- Do not treat frozen soil where runoff could damage sensitive plants.
- Grazing and Haying Restrictions: There are no restrictions on grazing or grass hay harvest following application of Milestone at labeled rates. Cutting hay too soon after spraying weeds will reduce weed control. Wait 14 days after herbicide application to cut grass hay to allow herbicide to work. Do not transfer grazing animals from areas treated with Milestone to areas where sensitive broadleaf crops occur without first allowing 3 days of grazing on an untreated pasture. Otherwise, urine and manure may contain enough aminopyralid to cause injury to sensitive broadleaf plants.
- Grazing Poisonous Plants: Herbicide application may increase palatability of certain poisonous plants. Do not graze treated areas until poisonous plants are dry and no longer palatable to livestock.
- **Restrictions in Hay or Manure Use:**
 - Do not use aminopyralid-treated plant residues, including grass, wood plants, trees, hay or straw from areas treated within the preceeding 18-months, in compost, mulch wood chips, or mushroom spawn.-
 - Do not use manure from animals that have eaten aminopyralidtreated forage or hay within the previous 3 days in compost, mulch or mushroom spawn. Livestock must have 3 days of eating nonaminopyralid-treated materials in order to clear their system of aminopyralid. Do not use aminopyralid-treated plants in areas where commercially grown mushrooms or susceptible broadleaf plants may be grown.
 - Do not spread manure from animals that have consumed aminopyralid-treated forage or hay within the previous 3 days on land used for growing susceptible broadleaf crops.
- Manure from animals that have consumed aminopyralid-treated forage or hay within the previous 3 days may only be used on
- areas used for pasture, grass grown for seed, wheat and corn.
 Do not plant a broadleaf crop (including soybeans, sunflower, tobacco, vegetables, field beans, peanuts, and potatoes) in fields or areas treated with aminopyralid or manure from animals that have grazed forage or eaten hay harvested from aminopyralid-treated areas until an adequately sensitive field bioassay is conducted to determine that the aminopyralid concentration in the soil is at level that is not injurious to the crop to be planted.
- Do not plant a broadleaf crop in fields or areas treated in the previous year with manure from animals that have consumed

- aminopyralid-treated forage or hay until an adequately sensitive field bioassay is conducted to determine that the aminopyralid concentration in the soil is at level that is not injurious to the crop to be planted.
- To promote herbicide decomposition, plant residues should be evenly incorporated in the surface soil or burned. Breakdown of aminopyralid in plant residues or manure is more rapid under warm, moist soil conditions and may be enhanced by supplemental irrigation.
- Crop Rotation: Do not rotate to any crop from rangeland, permanent pasture or CRP acres within one year following treatment. Cereals and corn can be planted one year after treatment. Broadleaf crops are sensitive to aminopyralid residues in the soil and prediction of crop safety by field biassay (see instructions below) is the BEST way to determine planting options. Broadleaf crops such as canola, flax, and alfalfa can require at least 2 to 3 years depending on the crop and environmental conditions. More sensitive crops such as soybeans, tobacco, peanuts, potatoes, and peas may require a longer plant back interval and should not be planted until a field bioassay shows that the level of aminopyralid present in the soil will not adversely affect that broadleaf crop.

Precautions for Avoiding Spray Drift

Avoid application under conditions that may allow spray drift because very small quantities of spray, which may not be visible, may injure susceptible crops. This product should be applied only when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, non-target crops and other plants) is minimal (e.g., when wind is blowing away from the sensitive areas. A drift control aid may be added to the spray solution to further reduce the potential for drift. If a drift control aid is used, follow the use directions and precautions on the manufacturer's label. Do not use a thickening agent with Microfoil, Thru-Valve booms, or other spray delivery systems that cannot accommodate thickened spray solutions.

Ground Equipment: With ground equipment spray drift can be lessened by keeping the spray boom as low as possible; by applying 10 gallons or more of spray per acre; by keeping the operating spray pressures at the manufacturer's specified minimum pressures for the specific nozzle type used (low pressure nozzles are available from spray equipment manufacturers); and by spraying when the wind velocity is low (follow state regulations). Avoid calm conditions which may be conducive to thermal inversions. Direct sprays no higher than the tops of target vegetation and keep spray pressures low enough to provide coarse spray droplets to minimize drift.

Aerial Application: Avoid spray drift at the application site. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. Users are responsible for considering all these factors when making decisions

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications:

- 1. The boom length must not exceed 75% of the fixed wing span and must be located at least 8 -10 inches below the trailing edge of the fixed wing; the boom length must not exceed 85% of the rotarv blade.
- 2. Nozzles should be pointed backward parallel with the air stream or not pointed downwards more than 45 degrees.

State regulations must be followed.

The applicator should be familiar with and take into account the information covered in the following **Aerial Drift Reduction Advisory**. This information is advisory in nature and does not supersede mandatory label requirements.

Aerial Drift Reduction Advisory

Information on Droplet Size: The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions).

Controlling Droplet Size:

- Volume Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure Do not exceed the nozzle manufacturer's specified pressures. For many nozzle types lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

 Number of Nozzles - Use the minimum number of nozzles that will
- provide uniform coverage.

- · Nozzle Orientation Orient nozzles so that the spray is released parallel to the airstream to produce larger droplets than other orientations. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- Nozzle Type Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

Boom Length: The distance of the outer most operating nozzles on the boom must not exceed 75% of wingspan or 85% of rotor diameter.

Application Height: Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

Swath Adjustment: When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller

Wind: Drift potential is lowest between wind speeds of 2 to 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. Note: Local terrain such as valleys and ravines can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

Temperature and Humidity: When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are

Temperature Inversions: Applications should not occur during a local, low level temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of the smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Sprayer Clean-Out Instructions

It is recommended to use separate spray equipment on highly sensitive crops such as tobacco, soybeans, potatoes, peanuts and tomatoes.

Do not use spray equipment used to apply Milestone for other applications to land planted to, or to be planted to, broadleaf plants unless it has been determined that all residues of this herbicide have been removed by thorough cleaning of equipment.

Equipment used to apply Milestone should be thoroughly cleaned before reusing to apply any other chemicals as follows:

- 1. Rinse and flush application equipment thoroughly after use. Dispose of rinse water in non-cropland area away from water supplies.
- 2. Rinse a second time, adding 1 quart of household ammonia or tank cleaning agent for every 25 gallons of water. Circulate the solution through the entire system so that all internal surfaces are contacted (15 to 20 minutes). Let the solution stand for several hours, preferably overnight.
 3. Flush the solution out of the spray tank through the boom.
- 4. Rinse the system twice with clean water, recirculating and draining
- 5. Spray nozzles and screens should be removed and cleaned separately.
- Do not apply this product with mist blower systems that deliver very fine spray droplets. Use of mist blower equipment can reduce control achieved with the herbicide and increase spray drift potential.

Use Information

Apply the specified rate of Milestone as a coarse low-pressure spray. Do not apply this product with mist blower systems that deliver very fine spray droplets. Spray volume should be sufficient to uniformly cover foliage or intended application site. Increase spray volume to ensure thorough and uniform coverage when target vegetation is tall and/or dense. To enhance foliage wetting and coverage, a non-ionic agricultural surfactant or other adjuvant may be added to the spray mixture as specified by the adjuvant label.

Milestone may be applied by ground or aerial application equipment on any registered use site specified on this label.

Ground Broadcast Application: Higher spray volumes (greater than 10 gallons per acre) generally provide better coverage and better control, particularly in dense and/or tall foliage.

Aerial Broadcast Application: Do not apply less than 2 gallons per acre total spray volume. Five gallons per acre or greater will generally provide better coverage and better control, particularly in dense and/or tall foliage.

High-Volume Foliar Application: High volume foliar treatments may be applied at rates equivalent to a maximum of 7 fl oz per acre per year. Use sufficient spray volume to thoroughly and uniformly wet foliage and stems.

For basal bark and cut stubble and all types of cut surface applications, see woody plant section.

Low-Volume Foliar Treatment

To control susceptible woody plants, use Milestone alone or in tank mixes with other herbicides in water. The spray concentration of Milestone tank mixes and total spray volume per acre should be adjusted according to the size and density of target woody plants and type of spray equipment used. With low-volume application, use sufficient spray volume to obtain uniform coverage of target plants including the surfaces of all foliage, stems, and root collars.

For best results, an adjuvant should be added to all spray mixtures. Match equipment and delivery rate of spray nozzles to height and density of woody plants. When treating tall, dense brush, a truck mounted spray gun with spray tips that deliver up to 2 gallons per minute at 40 to 60 psi may be required. Backpack or other types of specialized spray equipment with spray tips that deliver less than 1 gallon of spray per minute may be appropriate for short, low to moderate density brush.

Spot Application: Spot treatments may be applied at an equivalent broadcast rate of up to 0.22 lb acid equivalent (14 fl oz of Milestone) per acre per year; however, not more than 50% of an acre may be treated at that rate. Do not apply more than a total of 0.11 lb acid equivalent (7 fl oz) per acre of Milestone per year as a result of broadcast, spot or repeat applications.) Spray volume should be sufficient to thoroughly and uniformly wet weed foliage, but not to the point of runoff. Repeat treatments may be made, but the total amount of Milestone applied must not exceed 7 fl oz per acre per year. To prevent misapplication, spot treatments should be applied with a calibrated sprayer with a known volume per acre. Table 1 shows Milestone amount to mix for various sprayer outputs in gallons per acre (GPA)

Table 1: Amount of Milestone (in mL) to mix in 1 gallon of water

Gallons per acre	Milestone amount (in mL) to mix to achive target application rates					
GPA	5 fl oz/a 7 fl oz/a 14 fl oz					
20	7.5	10.5	21.0			
30	5.0	7.0	14.0			
40	3.8	5.3	10.5			
50	3.0	4.2	8.4			
60	2.5	3.5	7.0			
70	2.1	3.0	6.0			
80	1.9	2.6	5.3			
90	1.7	2.3	4.7			
100	1.5	2.1	4.2			

Use a syringe to measure cc

Note: Table 1 above shows mixes for various sprayer outputs in gallons per acre (GPA).

Conversions:

1 tsp = 5 mL30 ml = 1 fluid ounce 1 cc = 1 mL3 tsp = 1 Tbsp2 Tbsp = 1 fluid ounce

Mixing Instructions

Mixing with Water: To prepare the spray, add about half the required amount of water in the spray tank. Then, with agitation, add the specified amount of Milestone and other herbicides, if tank mixing. Finally, with continued agitation, add the rest of the water and additives such as adjuvants, surfactants or drift control and deposition aids.

Addition of Surfactants or Adjuvants on All Labled Use Sites: The addition of a high quality non-ionic surfactant (of at least 80% active principal) or adjuvant at 0.25 to 0.5 % volume per volume (1 to 2 quarts per 100 gallons of spray) is recommended to enhance herbicide activity under adverse environmental conditions (such as, high temperature, low relative humidity, drought conditions, dusty plant surfaces) or when weeds are heavily pubescent or more mature.

Tank Mixing with Other Herbicides: Milestone may be applied in tank mix combination with labeled rates of other herbicides provided: (1) the tank mix product is labeled for the timing and method of application for the use site to be treated and (2) mixing is not prohibited by the label of the tank mix product(s), and (3) that the tank mix combination is physically compatible (see tank mix compatibility testing below). When tank mixing, use only in accordance with the restrictions, precautions and limitations on the respective product labels.

- It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.
- Do not exceed specified application rates. If products containing the same active ingredient are mixed, do not exceed the maximum allowable active ingredient use rates.
- For direct injection or other spray equipment where the product formulations will be mixed in undiluted form, special care should be taken to ensure tank mix compatibility.
- Always perform a jar test to ensure the compatibility of products to be used in tank mixture.

Tank Mix Compatibility Testing: Perform a jar test prior to mixing in a spray tank to ensure compatibility of Milestone and other pesticides or carriers. Use a clear glass jar with lid and mix ingredients in the same order and proportions as will be used in the spray tank. The mixture is compatible if the materials mix readily when the jar is inverted several times. The mixture should remain stable after standing for 1/2 hour or, if separation occurs, should readily remix if agitated. An incompatible mixture is indicated by separation into distinct layers that do not readily remix when agitated and/or the presence of flakes, precipitates, gels, or heavy oily film in the jar. Use of an appropriate compatibility aid may resolve mix incompatibility. If the mixture is incompatible do not use that tank mix partner in tank mixtures.

Invert emulsion spray mixtures

Milestone can be applied in an invert emulsion using oil and an appropriate inverting agent. Follow label directions of the inverting agent.

Mixing with Sprayable Liquid Fertilizer Solutions: Milestone is usually compatible with liquid fertilizer solutions. It is anticipated that Milestone will not require a compatibility agent for mixing with fertilizers; however, a compatibility test (jar test) should be made prior to mixing. Jar tests are particularly important when a new batch of fertilizer or pesticide is used, when water sources change, or when tank mixture ingredients or concentrations are changed. Compatibility may be determined by mixing the spray components in the desired order and proportions in a clear glass jar before large scale mixing of spray components in the spray tank.

Note: The lower the temperature of the liquid fertilizer, the greater the likelihood of mixing problems. Use of a compatibility aid may be required if Milestone is mixed with a 2,4-D-containing product and liquid fertilizer. Mixing Milestone and 2,4-D in N-P or N-P-K liquid fertilizer solutions is more difficult than mixing with straight nitrogen fertilizer and should not be attempted without first conducting a successful compatibility jar test. Agitation in the spray tank must be vigorous to be comparable with jar test agitation. Apply the spray mixture the same day it is prepared while maintaining continuous agitation. Rinse the spray tank thoroughly after use.

Note: Foliar-applied liquid fertilizers themselves can cause yellowing of the foliage of forage grasses and other vegetation.

Use Rates and Timing

Milestone may be applied as a broadcast spray by ground or aerial equipment or as a spot application to control weeds including, but not limited to, those listed on this label. When a rate range is given use the higher rate to control weeds at advanced growth stages, or under less than favorable growing conditions, or for longer residual control. Best results are obtained when spray volume is sufficient to provide uniform coverage of treated weeds. For optimum uptake and translocation of Milestone, avoid mowing, haying, shredding, burning or soil disturbance in treated areas for at least 14 days following application.

Milestone provides post emergence control and premergence control of emerging seedlings of susceptible weeds, and re-growth of certain perennial weeds following application. Preventing establishment of weeds will depend upon application rate, season of application, and environmental conditions after application.

Milestone can provide long-term control of susceptible weeds. The length of control is dependent upon the application rate, condition and growth stage of target weeds, environmental conditions at and following application, and the density and vigor of competing desirable vegetation. Long-term weed control is most effective where grass vegetation is allowed to recover from overgrazing, drought, etc., and compete with weeds.

Milestone can be an important component of integrated vegetation management programs designed to renovate or restore desired plant communities. To maximize and extend the benefits of weed control provided by Milestone, it is important that other vegetation management practices, including proper grazing management, biological control agents, replanting, fertilization, prescribed fire, etc., be used in appropriate sequences and combinations to further alleviate the adverse effects of weeds on desirable plant species and to promote development of desired plant communities. Agricultural and natural resources specialists with federal and state government agencies can provide guidance on best management practices and development of integrated vegetation management programs.

Plants Controlled

The following weeds and woody plants will be controlled with the rates of Milestone indicated below (table 2). For best results, most weeds and woody plants should be treated when they are actively growing and under conditions favorable for growth. Use a higher rate in the rate range when growing conditions are less than favorable or when weed foliage is tall and dense, or when optimal longer term residual control is desired. Milestone also provides preemergence control of germinating seeds or seedlings of susceptible weeds following application.

Table 2: Weeds and Woody Plants Controlled **Note:** Numbers in parentheses (-) refer to specific use directions for a particular weeds species.

Common Name	Scientific Name	Rate Range (fl oz/acre)	Life Cycle	Plant Family
amaranth, spiny	Amaranthus spinosus	4 to 7	annual	Amaranthaceae
bedstraw	Galium spp.	4 to 7	perennial	Rubiaceae
beggarticks	Bidens spp.	4 to 7 ·	annual	Asteracea
broomweed, annual	Amphiachyris dracunculoides	4 to 7	annual	Asteraceae
burdock, common	Arctium minus	4 to 7	biennial	Asteraceae
buttercup, hairy	Ranunculus sardous	4 to 7	annual	Ranunculaceae
buttercup, tall	Ranunculus acris	4 to 7	perennial	Ranunculaceae
buttercup spp	Ranunculus spp	4 to 7	various	Ranunculaceae
camelthorn	Alhagi pseudalhagi	5 to 7	perennial	Fabaceae
cat's ear, common	Hypochaeris radicata	5 to 7	perennial	Asteracea
cat's ear	Hypochaeris spp	5 to 7	perennial	Asteracea
chamomile, scentless	Matricaria inodora	4 to 7	annual	Asteraceae
chicory	Cichorium intybus	4 to 6	perennial	Asteraceae
chickweed	Stellaria media	7	annual	Caryophyllaceae

Table 2: Weeds and Woody Plants Controlled (Cont.) **Note:** Numbers in parentheses (-) refer to specific use directions for a particular weeds species.

Common Name	Scientific Name	Rate Range (fi oz/acre)	Life Cycle	Plant Family
cinquefoil, sulfur (1)	Potentilla recta	4 to 7	perennial	Rosaceae
cocklebur	Xanthium strumarium	3 to 5	annual	Asteraceae
clover	Trifolium spp.	5 to 7	perennial	Fabaceae
crazyweed	Oxytropisp	5 to 7	perennial	Fabaceae
croton, tropic	Croton glandulosus	3 to 5	annual	Euphorbiaceae
crownvetch	Securigera varia	5 to 7	perennial	Fabaceae
cudweed, purple	Gamochaeta purpurea	4 to 7	annual	Asteraceae
daisy, oxeye (1)	Leucanthemum vulgare	4 to 7	perennial	Asteraceae
dock, curly	Rumex crispus	4 to 7	perennial	Polygonaceae
evening primrose, cutleaf	Oenothera laciniata	4 to 7	annual	Onagraceae
fiddleneck	Amsinckia spp	4 to 7	annual	Boraginaceae
	Epilobium angustifolium	5 to 7		Onagraceae
fireweed	<u> </u>	4 to 7	perennial	Asteraceae
fleabane, flax-leaf	Conyza bonariensis		annual	
leabane, hairy	Conyza bonariensis	5-7	annual/biennial	Asteraceae
nawkweed, orange (2)	Hieracium aurantiacum	4 to 7	perennial	Asteraceae
nawkweed, yellow (2)	Hieracium caespitosum	4 to 7	perennial	Asteraceae
nenbane, black	Hyoscyamus niger	5 to 7	annual/biennial	Solanaceae
nenbit	Lamium amplexicaule	5 to 7	annual/ biennial	Lamiaceae
nogweed, giant	Heracleum mantegazzianum	7	perennial	Apiaceae
norsenettle, Carolina	Solanum carolinense	4 to 7	perennial	Solanaceae
norseweed (marestail)	Conyza canadensis	4 to 7	annual	Asteraceae
ronweed, tall	Vernonia gigantea	5 to 7	perennia!	Asteraceae
ronweed, western	Vernonia baldwinii	7	perennial	Asteraceae
knapweed, diffuse (3)	Centaurea diffusa	5 to 7	biennial/ perennial	Asteraceae
knapweed, meadow	Centaurea debeauxii	5 to 7	perennial	Asteraceae
knapweed, Russian (4)	Acroptilon repens	5 to 7	perennial	Asteraceae
knapweed, spotted (3)	Centaurea stoebe	5 to 7	biennial/ perennial	Asteraceae
knapweed, squarrose	Centaurea virgata	5 to 7	biennial/ perennial	Asteraceae
knapweeds	Centaurea spp.	5 to 7	biennial/ perennial	Asteraceae
knotweeds, Japanese, bohemian (11)	Reynoutria japonica	7-14	perennial	Polygonaceae
kudzu	Pueraria montana	7	perennial	Fabaceae
ady's thumb	Polygonum persicaria	3 to 5	annual	Polygonaceae
ambsquarters	Chenopodium album	5 to 7	annual	Chenopodiaceae
espedeza, annual	Lespedeza striata	5 to 7	annual	Fabaceae
icorice, wild	Glycyrrhiza lepidota	7	perennial	Fabaceae
		5 to 7	perennial	Fabaceae
ocoweed	Astragalus spp.	7		
ocust, black	Robinia pseudoacacia		woody perennial	Fabaceae
ocust, honey	Gleditsia triacanthos	7	woody perennial	Fabaceae
oosestrife, purple (12)	Lythrum salicaria	7-14	perennial	Lythraceae
nayweed, scentless	Tripleurospermum perforate	4 to 7	annual	Asteraceae
nayweed, stinking	Anthemis cotula	7	annual	Asteraceae
nedic, black	Medicago lupulina	4 to 7	perennial	Fabaceae
mimosa	Albizia julibrissin	7	woody perennial	Fabaceae
nullein (5)	Verbascum spp.	7	biennial	Scrophulariaceae
nightshade, silverleaf	Solanum elaeagnifolium	4-7	perennial	Solanaceae
extongue, bristly	Picris echioides	5 to 7	biennial	Asteraceae
pea, Swainson	Sphaerophysa salsula	5-7	perennial	Fabaceae
povertyweed	Iva axillaris	5-7	perennial	Asteraceae
agweed, common	Ambrosia artemisiifolia	3 to 5	annual	Asteraceae
agweed, western	Ambrosia psilostachya	4 to 7	perennial	Asteraceae
agweed, western	Ambrosia trifida	4 to 7	annual	Asteraceae
agweed, giant	Senecio jacobaea	5 to 7	perennial	Asteraceae
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Table 2: Weeds and Woody Plants Controlled (Cont.)

Note: Numbers in parentheses (-) refer to specific use directions for a particular weeds species.

Common Name	Scientific Name	Rate Range (fl oz/acre)	Life Cycle	Plant Family
rush skeletonweed	Chondrilla juncea	5 to 7	perennial	Asteraceae
sicklepod	Cassia obtusifolia	7	perennial	Fabaceae
smartweed, Pennsylvania	Polygonum pensylvanicum	3 to 5	annual	Polygonaceae
sneezeweed, bitter	Helenium amarum	4 to 7	annual	Asteraceae
soda apple, tropical (6)	Solanum viarum	5 to 7	perennial	Solanaceae
sowthistle, annual	Sonchus oleraceae	7	annual	Asteraceae
sowthistle, perennial	Sonchus arvensis	3 to 5	perennial	Asteraceae
spanishneedles	Bidens bipinnata	4 to 7	annual	Asteraceae
St. Johnswort, common	Hypericum perforatum	5 to 7	perennial	Clusiaceae
tiltgrass, Japanese	Microstegium vimineum	5-7	annual	Poaceae
starthistle, Malta (7)	Centaurea melitensis	3 to 5	annua!	Asteraceae
starthistle, purple (7)	Centaurea calcitrapa	3 to 5	biennial	Asteraceae
starthistle, yellow (7)	Centaurea solstitialis	3 to 5	annual	Asteraceae
sunflower, common	Helianthus annuus	4 to 7	annual	Asteraceae
weetclover, white	Melilotus albus	5 to 7	biennial	Fabaceae
weetclover, yellow	Melilotus officinalis	5 to 7	biennial	Fabaceae
easel	Dipsacus spp.	4 to 7	biennial	Dipsacaceae
histle, artichoke	Cynara cardunculus	5 to 7	perennial	Asteracea
histle, blessed milk	Silybum marianum	4-7	biennial	Asteraceae
histle, bull (8)	Cirsium vulgare	3 to 5	biennial	Asteraceae
histle, Canada (9)	Cirsium arvense	5 to 7	perennial	Asteraceae
histle, woolly distaff	Carthamus lanatus	4 to 7	annual	Asteraceae
histle, Italian	Carduus pycnocephalus	7	annual	Asteraceae
histle, musk (8)	Carduus nutans	3 to 5	biennial	Asteraceae
histle, plumeless (8)	Carduus acanthoides	3 to 5	biennial	Asteraceae
histle, Scotch	Onopordum acanthium	5 to 7	biennial	Asteracea
histle, Russian (preemergence)	Salsola spp	7	annual	Chenopodiaceae
ree of heaven	Ailanthus altissima	7	perennial	Simaroubaceae
etch	Vicia spp.	3 to 7	perennial	Fabaceae
villoweed, panicle	Epilobium brachycarpum	5-7	annual	Onagraceae
visteria	Wisteria brachybotris	7	woody perennial	Fabaceae
vormwood, absinth(10)	Artemisia absinthium	6 to 7	perennial	Asteraceae
varrow, common	Achillea millefolium	7	perennial	Asteraceae

- (1) Sulfur cinquefoil or oxeye daisy: Apply Milestone at 4 to 6 fl oz per acre to plants in the prebud stage of development.
- 2) Orange or yellow hawkweeds: Apply Milestone at 4 to 7 fl oz per acre to plants in the bolting stage of development.
- (3) **Diffuse, spotted, and squarrose knapweeds:** Apply Milestone at 5 to 7 fl oz per acre when plants are actively growing with the optimum time of application occurring from rosette to the bolting stages of development or in the fall. Plants will be controlled by mid-summer and fall applications even though plants may not show any changes in form or stature the year of application.
- (4) Russian knapweed: Apply Milestone at 5 to 7 fl oz per acre to plants in the spring and summer at early bud to flowering stages and to dormant plants in the fall.
- (5) Mullein: Apply to the rosette stage
- (6) Tropical soda apple: Apply Milestone at 5 to 7 fl oz per acre at any growth stage, but application by flowering will reduce seed production potential.
- (7) Malta, purple, and yellow starthistle: Apply Milestone at 3 to 5 fl oz per acre to plants at the rosette through bolting growth stages.
- (8) **Bull, musk, and plumeless thistles:** Apply Milestone at 3 to 5 fl oz per acre in the spring and early summer to rosette or bolting plants or in the fall to seedlings and rosettes. Apply at 4 to 5 fl oz when plants are at the late bolt through early flowering growth stages. 2,4-D at 1 lb ae/acre should be tank-mixed with Milestone starting at the late bud stages
- (9) Canada thistle: Apply Milestone at 5 to 7 fl oz per acre in the spring after all plants have fully emerged (some may be budding) until the oldest plants are in full flower stage. Use the higher rate when applying to the flower stage. Applications are also effective in the fall before a killing frost. Use higher rates for older/dense stands or for longer residual control.
- (10) Absinth wormwood: Apply 6 to 7 fl oz per acre before wormwood is 12 inches tall. When applying by air on CRP, coverage is important and a minimum of 3 GPA is specified. Remove old duff and litter by fire or mowing for best results
- (11) Invasive knotweeds: Japanese, Bohemian, giant knotweeds: Optimum suppression of invasive knotweeds with Milestone herbicide is obtained when applications are made to plants that are at least 3 to 4 feet tall. Results of field trials conducted in the western U.S. indicate that high volume applications (100 gpa or greater) of Milestone at 7 fi oz/A or a spot treatment rate up to 14 fl oz/A applied in summer will provide good control of invasive knotweeds. In the upper Midwest, mowing in summer followed by fall application of Milestone (prior to frost) provided the best control. Infestations of invasive knotweed that are mowed should be allowed to regrow to at least 3 feet in height prior to herbicide treatment. Monitoring and follow-up herbicide treatments on regrowth will be necessary to control resprouts and achieve long-term control.
- (12) Purple loosestrife: For optimum control apply Milestone at 7 fl oz per acre plus 1 pt to 1 qt of 2,4-D amine or 1 to 2 qts of Garlon 3A. Spot treatments may also be made by applying Milestone at 14 fl oz (see Spot treatment section of the label) with or without the addition of 2,4-D or Garlon 3A.
- (13) Fiddleneck: For optimum control apply Milestone at 4 to 7 fl oz per acre when the plants are young and before flowering. Use higher rates if the plants are older and larger. In California optimal application timing is November through March.

For Control or Suppression of Medusahead Rye

Milestone applied broadcast at 7 to 14 fl oz/A can suppress or control medusahead rye (*Taeniatherum caput-medusae*) and downy brome (*Bromus tectorum*, also called cheatgrass). The key to optimum results is the timing of application. Applications should be made in late summer prior to rains and seed germination in order to provide the best possibility of suppression or control. In general, control or suppression will be poor if any of the seeds have germinated prior to application even if they have not yet emerged through the soil surface. Tank mixes with Accord XRT II at 12 fl oz/A, where a non-selective herbicide can be used or where desired grasses are dormant and will not be harmed, and will aid in control. Spot treatment restrictions (see spot treatment section) apply for rates above 7 fl oz/A for broadcast applications.

Control of Terrestrial Weeds near and up to the Water's Edge

Milestone can be used to treat terrestrial weeds that extend up to the water's edge. Do not apply directly to water. This product must not be used to treat vegetation standing in the water. When controlling terrestrial weed species near and up to the water's edge, take precautions to minimize incidental overspray to the adjacent water. Consult local public water control authorities before applying this product near public waters. Permits may be required to treat such areas. Apply the specified rate, listed in Table 2, of Milestone as a coarse low-pressure spray as ground broadcast or spot applications. Do not apply aerially for control of weeds growing at or near the water's edge. Spray volume should be sufficient to uniformly cover foliage. Increase the spray volume to ensure thorough and uniform coverage when target vegetation is tall and/or dense. It is also permissible to treat target weeds within dry non-irrigation ditches and seasonally dry transitional areas between upland and lowland sites (such as flood plains, deltas, marshes, prairie potholes or vernal pools), but only at times when those sites are dry and are forecasted or managed by water control systems to remain dry for at least 2 weeks following application.

Use Rate Restrictions:

Do not broadcast apply more than 7 fl oz per acre of Milestone per year.

The total amount of Milestone applied broadcast, as a re-treatment, and/or spot treatment cannot exceed 7 fl oz per acre per year. Spot treatments may be applied at an equivalent broadcast rate of up to 0.22 lb acid equivalent (14 fl oz of Milestone) per acre per year; however, not more than 50% of an acre may be treated at that rate. Do not apply more than a total of 0.11 lb acid equivalent (7 fl oz) per acre of Milestone per year as a result of broadcast, spot or repeat applications.

Woody Plant Control

Milestone may be applied to control woody plants by any application method listed on the label on any site listed.

Milestone may be applied alone or in tank-mix combinations with labeled rates of other herbicides provided: (1) the tank mix product is labeled for the timing and method of application for the use site to be treated and (2) mixing is not prohibited by the label of the registered tank mixed products. Use as directed in the Directions of Use section of the tank-mix partner. Follow Mixing Instructions under the General Mixing and Application Instructions section.

Add Milestone to tank mixes for improved brush control on species such as alder, aspen, blackberry, boxelder, cherry, coyote brush, conifers, cottonwood, elm, maple, poplar, oak, brooms (Scotch, Spanish, French, Portuguese), gorse, hackberry, Russian and Autumn olive, salt-cedar.

Low or High Volume Foliar Applications:

For broad spectrum brush control using a foliar application, Milestone may be added to tank mixes with Accord® XRT II, Arsenal Powerline, DMA® 4IVM, Garlon 4 Ultra, Remedy Ultra, Tordon 101M, Transline, Forestry Garlon XRT, or Garlon 3A, Rodeo®, Tordon® K, Tordon 22K or other products labeled for use on the intended site.

Low Volume Basal Bark Applications:

To control susceptible woody plants with stems less than 6 inches in basal diameter, apply herbicide mix (see below for rates) with a backpack or knapsack sprayer using low pressure and a solid cone or flat fan nozzle. Spray the basal parts of brush and tree trunks to a height of 12 to 15 inches from the ground in a manner that thoroughly wets the lower stems but not to the point of runoff. The use of a Spraying Systems Y2 nozzle or similar nozzle is recommended, which will narrow the spray pattern to target individual stems. Herbicide concentration should vary with tree diameter, bark thickness, volume used per acre, and susceptibility of species treated. Apply anytime, including the winter months, except when snow or water prevent spraying to the ground line or when stem surfaces are saturated with water.

Milestone may be used as a low volume basal treatment alone, for sensitive woody species in the Fabaceae family (legumes), or in combination with

other products such as Garlon 4 Ultra, Forestry Garlon XRT, Remedy Ultra for broader control of other sensitive woody species. Applications should not exceed the maximum use rate per acre for the site.

Mix Milestone at 0.5 to 5% v/v alone, or with Garlon 4 Ultra or Forestry Garlon XRT in a commercially available basal diluent (or other oils or basal diluents as recommended by the manufacturer); the basal oil should be compatible with a water soluble herbicide such as Milestone. See table 3 to calculate the amount of Milestone that can be applied per acre at the various volumes and rates. Make a stable tank mixture for basal bark application by first combining each product with a compatibility agent prior to final mixing in the desired ratio. If using a tank mix, mix the oil-based products such as Garlon 4 Ultra thoroughly with basal oil and add any other oil-based products before adding the water based products. If the mixture stands for more than 30 minutes, reagitation may be required.

Oil and water based mixtures can separate over time. Long-term storage is not recommended without vigorous agitation prior to use or without a recommended compatibility agent.

Use caution when treating areas adjacent to susceptible and desirable species to avoid root uptake and possible injury when using Milestone or other soil active herbicides

Low Volume Stem Bark Band Treatment

To control susceptible woody plants (see table 2) with stems less than 6 inches in basal diameter, mix 0.5 to 5 gallons of Milestone in enough oil to make 100 gallons of spray mixture. Apply with a backpack or knapsack sprayer using low pressure and a solid cone or flat fan nozzle. Apply the spray in a 6- to 10-inch wide band that completely encircles the stem. Spray in a manner that completely wets the bark, but not to the point of runoff. The treatment band may be positioned at any height up to the first major branch. For best results apply the band as low as possible. Spray mixture concentration should vary with size and susceptibility of species to be treated. Applications may be made anytime, including winter months.

Table 3:

% of Milestone in Basal Mix	Fluid ounces of Milestone by GPA (gallons per acre)						
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.0	1.3	2.6	3.8	5.1	6.4	7.7	9.0
1.5	1.9	3.8	5.8	7.7	9.6	11.5	13.4
2.0	2.6	5.1	7.7	10.2	12.8		
2.5	3.2	6.4	9.6	12.8	I I S.		
3.0	3.8	7.7	11.5		o lei		
3.5	4.5	9.0	13.4				
4.0	5.1	10.2					1 6
5.0	6.4	12.8	100	1 5 5 5			178

within spot treatment labeled rate in excess of spot treatmentt labeled rate

NOTE: Avoid treating high density of stems adjacent to desirable trees with roots in the treatment zone. See table 4 for guidance on estimated volume per acre by treated stem density. Trees adjacent to or in a treated area can occasionally be affected by root uptake of Milestone. Applications of Milestone within the root zone of desirable trees should not be made unless injury can be tolerated. Severe injury or plant death can occur if used near roses, or leguminous trees such as locusts, redbud, mimosa, and caragana.

Table 4:

Estimated gallons of spray solution per acre for basal bark applications on various stem densities per acre					
	Volume Range	Target Spacing			
Number of Stems/Acre	(gal/acre)	(ft between brush/trees)			
250	1.0 - 1.7	8.4			
500	2.0 - 3.3	5.9			
750	3.0 - 5.0	4.9			
1000	4.0 - 6.6	4.2			
1250	5.0 - 8.3	3.8			
1500	5.9 - 9.9	3.4			

Cut surface

Apply Milestone in the cut surface applications listed below for control of susceptible tree species such as legumes like Albezia, mimosa, locust, etc. Mixtures of Milestone and Garlon 3A or Garlon 4 Ultra may be effective on species other than legumes such as elm, maple,

Cut surface applications may be used successfully at any season except during periods of heavy sap flow of certain species - for example, maples in the spring.

Cut-Stump Treatment

Apply Milestone as a 10% dilution v/v in water, by spraying or painting all the exposed cambium layer on the freshly cut surface. The cambium area next to the bark is the most vital area to wet.

With Tree Injector Method

Apply by injecting 1 milliliter of 10% v/v Milestone in water through the bark at intervals of 3 to 4 inches between centers of the injector wound. The injections should completely surround the tree at any convenient height. Note: No Worker Protection Standard worker entry restrictions or worker notification requirements apply when this product is injected directly into plants.

With Hack and Squirt Method

Make cuts around the tree trunk at a convenient height with a hatchet or similar equipment so that the cuts overlap slightly and make a continuous circle around the trunk. Spray 1 milliliter of 10% v/v Milestone in water into the pocket created between the bark and the inner stem/trunk by each cut.

With Frill or Girdle Method

Make a single girdle through the bark completely around the tree at a convenient height. The frill should allow for the herbicide to remain next to the inner stem and absorb into the plant. Wet the cut surface with 10% v/v Milestone in water.

For use in Hawaii only:

Incision Point Application (IPA) also known as Tree Injection or Hack and Squirt

For control of susceptible tree species such as Albezia, and other legumes and susceptible tree species, make cuts around the tree trunk at a convenient height with a machete, hatchet or similar equipment so that the cuts are about 6 inches apart between centers. Inject ½ to 1 milliliter of undiluted Milestone into the pocket created between the bark and the inner stem/trunk by each cut as soon as possible after cutting. The cambium area next to the bark is the most vital area to wet.

Preemergent Weed Control

Typically Milestone is used as a post emergent herbicide but it has preemergent activity on susceptible weeds. Use Milestone as a preemergence spray prior to weed seed germination. Control will depend upon species susceptibility, application timing, and environmental conditions, such as precipitation, following application. When applied at rates lower than 7 fl oz per acre, Milestone can provide short-term control of some susceptible weeds but when applied at 7 fl oz (broadcast) or 14 fl oz (spot treatment), weed control is extended.

Best results for use as a premergent application for total vegetation control are obtained if Milestone at 7 fl oz per acre is tank mixed with other herbicides to broaden the weed spectrum and to control grasses. If grasses and broadleaf weeds tolerant to Milestone are present at the time of application or will germinate on the site, then tank mixtures with other herbicides, such as Accord® XRT II, Rodeo®, Dimension® 2EW or EC (annual grasses), Oust XP, Esplanade, flumioxazin, diuron, or other herbicides labeled for total vegetation control applications.

SPOT TREATMENTS FOR AREAS SUCH AS SUBJECT POLES, SUBSTATIONS, AND OTHER SMALL AREAS

Spot treatments may be applied at an equivalent broadcast rate of up to 0.22 lb acid equivalent (14 fl oz of Milestone) per acre per year to small spots for clearing around utility subject poles to help prevent fire damage, on small substations and other spot areas. To prevent misapplication, spot treatments should be applied with a calibrated sprayer.

Terms and Conditions of Use

If terms of the following Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. To the extent permitted by law, otherwise, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies.

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Produced for **Dow AgroSciences LLC** 9330 Zionsville Road Indianapolis, IN 46268

Label Code: D02-879-007 Replaced Label: D02-879-006 LOES Number: 010-02112

EPA accepted 01/30/17

Revisions:

- Added the following to the use site list in description: "seasonally dry flood plains, deltas, marshes, prairie potholes, or vernal pools."
- Revised the restriction for New York to read, "Not for Sale, Sale into, Distribution, and/or Use in Nassau and Suffolk counties of New York State.'
- Added the following restriction: "Not For Sale, Distribution, or Use in the San Luis Valley of Colorado."
 Updated the Use Precautions and Restriction section and divided into
- two distinct sections.
- Updated Tank Mixing with Other Herbicides section by adding, "It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.
- 6. Added the following use section: Control of Terrestrial Weeds at the Water's Edge



SAFETY DATA SHEET

DOW AGROSCIENCES LLC

Product name: MILESTONE™ Herbicide Issue Date: 05/26/2015
Print Date: 05/26/2015

DOW AGROSCIENCES LLC encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

1. IDENTIFICATION

Product name: MILESTONE™ Herbicide

Recommended use of the chemical and restrictions on use

Identified uses: End use herbicide product

COMPANY IDENTIFICATION

DOW AGROSCIENCES LLC 9330 ZIONSVILLE RD INDIANAPOLIS IN 46268-1053 UNITED STATES

Customer Information Number:

800-992-5994 info@dow.com

EMERGENCY TELEPHONE NUMBER

24-Hour Emergency Contact: 800-992-5994 Local Emergency Contact: 352-323-3500

2. HAZARDS IDENTIFICATION

Hazard classification

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Other hazards

no data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

Component CASRN Concentration

Aminopyralid Triisopropanolamine Salt

566191-89-7

40.6%

Triisopropanolamine 122-20-3 1.5%

Balance Not available 57.9%

4. FIRST AID MEASURES

Description of first aid measures

General advice: If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Inhalation: Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control center or doctor for treatment advice.

Skin contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Eye contact: Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

Ingestion: No emergency medical treatment necessary.

Most important symptoms and effects, both acute and delayed: Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

Indication of any immediate medical attention and special treatment needed

Notes to physician: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or doctor, or going for treatment.

5. FIREFIGHTING MEASURES

Suitable extinguishing media: To extinguish combustible residues of this product use water fog, carbon dioxide, dry chemical or foam.

Unsuitable extinguishing media: no data available

Special hazards arising from the substance or mixture

Hazardous combustion products: Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds. Combustion products may include and are not limited to: Nitrogen oxides. Hydrogen chloride. Carbon monoxide. Carbon dioxide.

Unusual Fire and Explosion Hazards: This material will not burn until the water has evaporated. Residue can burn.

Advice for firefighters

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. To extinguish combustible residues of this product use water fog, carbon dioxide, dry chemical or foam. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage. Review the "Accidental Release Measures" and the "Ecological Information" sections of this (M)SDS.

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

Methods and materials for containment and cleaning up: Contain spilled material if possible. Small spills: Absorb with materials such as: Clay. Dirt. Sand. Sweep up. Collect in suitable and properly labeled containers. Large spills: Contact Dow AgroSciences for clean-up assistance. See Section 13, Disposal Considerations, for additional information.

7. HANDLING AND STORAGE

Precautions for safe handling: Keep out of reach of children. Do not swallow. Avoid breathing vapor or mist. Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Wash thoroughly after handling.

Conditions for safe storage: Store in a dry place. Store in original container. Keep container tightly closed when not in use. Do not store near food, foodstuffs, drugs or potable water supplies.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits are listed below, if they exist.

Component	Regulation	Type of listing	Value/Notation
Triisopropanolamine	Dow IHG	TWA	10 mg/m3

RECOMMENDATIONS IN THIS SECTION ARE FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD SEE THE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING.

Exposure controls

Engineering controls: Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

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Individual protection measures

Eye/face protection: Use safety glasses (with side shields).

Skin protection

Hand protection: Chemical protective gloves should not be needed when handling this material. Consistent with general hygienic practice for any material, skin contact should be minimized.

Other protection: No precautions other than clean body-covering clothing should be needed.

Respiratory protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator. The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state Liquid.
Color Brown
Odor Mild

Odor Thresholdno data availablepH7.3 pH ElectrodeMelting point/rangeNot applicableFreezing point< -10 ℃ (< 14 °F)</th>Boiling point (760 mmHg)no data available

Flash point closed cup > 100 °C (> 212 °F) Pensky-Martens Closed Cup

ASTM D 93

Evaporation Rate (Butyl Acetate

= 1)

no data available

Flammability (solid, gas)

Lower explosion limit

Upper explosion limit

Vapor Pressure

Relative Vapor Density (air = 1)

Relative Density (water = 1)

Not Applicable

no data available

no data available

no data available

1.14 at 20 ℃ (68 ℉)

Water solubility Soluble

Partition coefficient: n-

octanol/water

no data available

Auto-ignition temperature none below 400 degC

Decomposition temperature No test data available

Dynamic Viscosity 12.2 cP at 20 °C (68 °F) *EPA OPPTS 830.7100 (Viscosity)*

Kinematic Viscosityno data availableExplosive propertiesno data availableOxidizing propertiesno data available

Issue Date: 05/26/2015 Product name: MILESTONE™ Herbicide

1.140 g/cm3 at 20 °C (68 °F) Digital density meter **Liquid Density**

no data available Molecular weight

54.4 mN/m at20 °C (68 °F) Surface tension

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

Reactivity: No dangerous reaction known under conditions of normal use.

Chemical stability: Thermally stable at typical use temperatures.

Possibility of hazardous reactions: Polymerization will not occur.

Conditions to avoid: Some components of this product can decompose at elevated temperatures.

Incompatible materials: Avoid contact with: Strong oxidizers.

Hazardous decomposition products: Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Hydrogen chloride. Nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Toxicological information appears in this section when such data is available.

Acute toxicity

Acute oral toxicity

Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.

LD50, Rat, male and female, > 5,000 mg/kg

Acute dermal toxicity

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

LD50, Rat, male and female, > 5,000 mg/kg

Acute inhalation toxicity

No adverse effects are anticipated from single exposure to mist. Based on the available data, respiratory irritation was not observed.

As product:

LC50, Rat, male and female, 4 Hour, dust/mist, > 5.79 mg/l

Skin corrosion/irritation

Essentially nonirritating to skin.

Serious eye damage/eye irritation

Essentially nonirritating to eyes.

Corneal injury is unlikely.

Sensitization

Did not cause allergic skin reactions when tested in guinea pigs.

For respiratory sensitization:

No relevant data found.

Specific Target Organ Systemic Toxicity (Single Exposure)

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

Specific Target Organ Systemic Toxicity (Repeated Exposure)

Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

Carcinogenicity

For similar active ingredient(s). Aminopyralid. Did not cause cancer in laboratory animals.

Teratogenicity

Did not cause birth defects or any other fetal effects in laboratory animals.

Reproductive toxicity

For similar active ingredient(s). Aminopyralid. In animal studies, did not interfere with reproduction.

Mutagenicity

In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

Aspiration Hazard

Based on physical properties, not likely to be an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicological information appears in this section when such data is available.

Toxicity

Acute toxicity to fish

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).

LC50, Oncorhynchus mykiss (rainbow trout), static test, 96 Hour, 360 mg/l, OECD Test Guideline 203 or Equivalent

LC50, Cyprinodon variegatus (sheepshead minnow), static test, 96 Hour, > 100 mg/l

Acute toxicity to aquatic invertebrates

EC50, Daphnia magna (Water flea), static test, 48 Hour, > 460 mg/l

LC50, saltwater mysid Mysidopsis bahia, static test, 96 Hour, > 104 mg/l

Acute toxicity to algae/aguatic plants

Product name: MILESTONE™ Herbicide

ErC50, Pseudokirchneriella subcapitata (green algae), 72 Hour, Growth rate inhibition, > 1,000 mg/l, OECD Test Guideline 201 or Equivalent

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Toxicity to Above Ground Organisms

Material is practically non-toxic to birds on an acute basis (LD50 > 2000 mg/kg). Material is practically non-toxic to birds on a dietary basis (LC50 > 5000 ppm).

dietary LC50, Colinus virginianus (Bobwhite quail), > 21422mg/kg diet.

oral LD50, Colinus virginianus (Bobwhite quail), > 10,000 ppm

oral LD50, Apis mellifera (bees), > 460micrograms/bee

contact LD50, Apis mellifera (bees), > 460micrograms/bee

Toxicity to soil-dwelling organisms

LC50, Eisenia fetida (earthworms), 14 d, survival, > 10,000 mg/kg

Persistence and degradability

Aminopyralid Triisopropanolamine Salt

Biodegradability: For similar material(s): Aminopyralid. Material is not readily biodegradable according to OECD/EEC guidelines.

Triisopropanolamine

Biodegradability: Biodegradation under aerobic static laboratory conditions is high (BOD20 or BOD28/ThOD > 40%). Biodegradation rate may increase in soil and/or water with acclimation. Material is not readily biodegradable according to OECD/EEC guidelines.

10-day Window: Fail **Biodegradation:** 0 % **Exposure time:** 28 d

Method: OECD Test Guideline 301F or Equivalent

Theoretical Oxygen Demand: 2.35 mg/mg

Photodegradation

Test Type: Half-life (indirect photolysis)

Sensitizer: OH radicals
Atmospheric half-life: 3 Hour

Method: Estimated.

Balance

Biodegradability: No relevant data found.

Bioaccumulative potential

Aminopyralid Triisopropanolamine Salt

Bioaccumulation: For similar active ingredient(s). Aminopyralid. Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Triisopropanolamine

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Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3). **Partition coefficient:** n-octanol/water(log Pow): -0.015 at 23 $^{\circ}$ C Measured

Bioconcentration factor (BCF): < 0.57 Fish. 42 d Measured

Balance

Bioaccumulation: No relevant data found.

Mobility in soil

Aminopyralid Triisopropanolamine Salt

For similar active ingredient(s).

Aminopyralid.

Potential for mobility in soil is very high (Koc between 0 and 50).

Triisopropanolamine

Potential for mobility in soil is very high (Koc between 0 and 50). Partition coefficient(Koc): 10 Estimated.

Balance

No relevant data found.

13. DISPOSAL CONSIDERATIONS

Disposal methods: If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

14. TRANSPORT INFORMATION

DOT

Not regulated for transport

Classification for SEA transport (IMO-IMDG):

Not regulated for transport

Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code

Consult IMO regulations before transporting ocean bulk

Classification for AIR transport (IATA/ICAO):

Not regulated for transport

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

OSHA Hazard Communication Standard

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312 No SARA Hazards

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

Pennsylvania (Worker and Community Right-To-KnowAct): Pennsylvania Hazardous Substances List and/or Pennsylvania Environmental Hazardous Substance List:

The following product components are cited in the Pennsylvania Hazardous Substance List and/or the Pennsylvania Environmental Substance List, and are present at levels which require reporting.

CASRN Components 122-20-3 Triisopropanolamine

Pennsylvania (Worker and Community Right-To-KnowAct): Pennsylvania Special Hazardous **Substances List:**

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

United States TSCA Inventory (TSCA)

This product contains chemical substance(s) exempt from U.S. EPA TSCA Inventory requirements. It is regulated as a pesticide subject to Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) requirements.

Federal Insecticide, Fungicide and Rodenticide Act

EPA Registration Number: 62719-519

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

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CAUTION

Causes moderate eye irritation

16. OTHER INFORMATION

Hazard Rating System

NFPA

Health	Fire	Reactivity
1	1110	Ticactivity
		1 0

Revision

Identification Number: 101209315 / A211 / Issue Date: 05/26/2015 / Version: 9.0

DAS Code: GF-871

Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this

document.

Legend

Dow IHG	Dow Industrial Hygiene Guideline
TWA	Time Weighted Average (TWA):

Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

DOW AGROSCIENCES LLC urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.



GROUP



HERBICIDE



PLATOON

A SELECTIVE WEED KILLER

FOR CONTROL OF MANY BROADLEAF WEEDS AND BRUSH CONTROL IN CORN, SOYBEANS (PREPLANT), CEREAL GRAINS, PASTURES, RANGELANDS AND IN NON-CROP AREAS INCLUDING LAWNS, ORNAMENTAL TURF, DRAINAGE DITCHBANKS, FENCE ROWS, RIGHTS-OF-WAY. ALSO FOR AQUATIC WEED CONTROL, CONTROL OF TREES BY INJECTION, AND TANK MIXES.

ACTIVE INGREDIENT:

2,4-Dichlorophenoxyacetic acid, dimethylamine salt*	46.8%
OTHER INGREDIENTS:	53.2%
TOTAL:	100.0%

*2,4-Dichlorophenoxyacetic acid equivalent 38.9% by weight or 3.8 pounds per gallon. Isomer specific by AOAC method No. 978.05

DANGER / PELIGRO

PRECAUCION AL USUARIO: Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

SEE NEXT PAGE FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300 For Medical Emergencies Only, Call (877) 325-1840

EPA REG. NO. 228-145

EPA EST. NO. 228-IL-001

Manufactured for Nufarm Americas Inc., 11901 S. Austin Avenue, Alsip, IL 60803

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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS **DANGER / PELIGRO**

Corrosive. Causes irreversible eye damage. Harmful if swallowed. Do not get in eyes, on skin or on clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Some of the materials that are chemical-resistant to this product are listed below.

All mixers, loaders, applicators, and other handlers must wear:

- · long-sleeved shirt and long pants,
- shoes and socks, plus
- chemical-resistant gloves, including barrier laminate, butyl rubber, nitrile rubber, or Viton (except for applicators using ground boom equipment),
- chemical-resistant apron when mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate, and
- · protective eyewear.

See engineering controls for additional requirements.

ENGINEERING CONTROLS STATEMENTS:

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d) (4-6)], the handler PPE (personal protective equipment) may be reduced or modified as specified in the WPS. Pilots must use an enclosed cockpit that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.240(d)(6)].

USER SAFETY REQUIREMENTS

Users Should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
 Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. If pesticide gets on skin, wash immediately with soap and water.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
- · Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

FIRST AID		
IF IN EYES	Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.	
IF SWALLOWED	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.	
IF ON SKIN OR CLOTHING	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.	

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-325-1840 for emergency medical treatment information.

NOTE TO PHYSICIANS

This product contains a phenoxy herbicidal chemical. There is no specific antidote. All treatments should be based on observed signs and symptoms of distress in the patient. Probable mucosal damage may contraindicate the use of gastric lavage. Overexposure to materials other than this product may have occurred.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates and may adversely affect non-target plants.

For Terrestrial Uses: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwater or rinsate.









This product contains a chemical with properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Application around a cistern or well may result in contamination of drinking water or groundwater.

For Aquatic Uses: Fish breathe dissolved oxygen in the water and decaying weeds also use oxygen. When treating continuous, dense weed masses, it may be appropriate to treat only part of the infestation at a time. For example, apply the product in lanes separated by untreated strips that can be treated after vegetation in treated lanes has disintegrated. During the growing season, weeds decompose in a 2 to 3 week period following treatment. Begin treatment along the shore and proceed outwards in bands to allow fish to move into untreated areas. Waters having limited and less dense weed infestations may not require partial treatments.

Do not contaminate water used for irrigation or domestic purposes (except as specifically listed on this label) especially in areas where grapes, cotton, tomatoes or other susceptible plants are grown.

Do not treat irrigation ditches in areas where water will be used to overhead (sprinkler) irrigate susceptible crops especially grapes, tomatoes, tobacco, and cotton.

Do not apply this product directly to, or permit to drift onto cotton, okra, grapes, tornatoes, fruit trees, vegetables, flowers or other desirable crop or ornamental plants which are susceptible to 2,4-D herbicide. Do not apply near susceptible plants since very small quantities of the 2,4-D will cause severe injury during the growing or dormant periods. Crops contacted by this product sprays or spray drift may be killed or suffer significant stand loss with extensive quality and yield reduction.

MIXING AND LOADING: Most cases of ground water contamination involving phenoxy herbicides such as 2,4-D have been associated with mixing/loading and disposal sites. Caution should be exercised when handling 2,4-D pesticides at such sites to prevent contamination of ground water supplies. Use of closed systems for mixing or transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent ground water contamination.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Read entire label before using this product.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 48 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is: coveralls, chemical-resistant gloves made of any water-proof material, shoes plus socks, protective eyewear.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter or allow people (or pets) to enter the treated area until sprays have dried.

USE RESTRICTIONS

Do not apply this product through any type of irrigation system. Do not use in or near a greenhouse. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

PRODUCT INFORMATION

INJURY TO CROPS FROM THIS HERBICIDE MAY OCCUR. IF YOU ARE NOT PREPARED TO ACCEPT SOME DEGREE OF CROP INJURY DO NOT USE THIS PRODUCT.

Crop varieties vary in response to 2,4-D and some are easily injured. Apply this product only to varieties known to be tolerant to 2,4-D. If you are uncertain concerning tolerant varieties or local use situations that may affect crop tolerance to 2,4-D, consult your seed company, State Agricultural Extension Service or qualified crop consultant for advice.

Be sure that use of this product conforms to all applicable laws, rules and regulations. Certain states have restrictions pertaining to application distances from susceptible crops. The applicator should become familiar with these laws, rules or regulations and follow them exactly.







WEED RESISTANCE

Any weed population may contain plants that are naturally resistant to 2,4-D, the active ingredient in this product, and to other herbicides with the same mode of action. ATTENTION: These resistant weed biotypes will not be controlled by this product. Consult advisors such as your local agricultural extension service for agronomic management practices to minimize the occurrence of glyphosate resistance and considerations for supplemental control measures.

Weed Management

To minimize the occurrence of glyphosate-resistant biotypes, observe the following general weed management practices:

Scout application site before and after herbicide applications.

- Start with a clean application site, using either a burndown herbicide application or tillage.
- Control weeds early when they are relatively small.
 Add other herbicides (e.g. a selective and/or a residual herbicide) and cultural practices (e.g. tillage or crop rotation) where appropriate. Utilize the specified label rate for the most difficult to control weed in your field. Avoid tank mixtures with other herbicides that reduce this
- product's efficacy (through antagonism), or tank mixture directions that encourage application rates of this product below the label directions. Control weed escapes and prevent weeds from setting seeds.
- Clean equipment before moving from field to field to minimize the spread of weed seed or plant parts.
- Report any incidence of repeated non-performance of this product on a particular weed to your Nufarm representative, local retailer, or county extension agent.

Management of Glyphosate-Resistant Biotypes

Since the occurrence of new glyphosate-resistant weeds cannot be determined until after product use and scientific confirmation, manufacturer is not responsible for any losses that may result from the failure of this product to control glyphosate-resistant weed biotypes.

- The following good agronomic practices are recommended to reduce the spread of confirmed glyphosate-resistant biotypes: If a naturally occurring resistant biotype is present in your application site, this product should be tank-mixed or applied sequentially
 with an appropriately labeled herbicide with a different mode of action to achieve control.
- Cultural and mechanical control practices (e.g. crop rotation or tillage) may also be used as appropriate.
- Scout treated application site after herbicide applications and control escaping weeds including resistant biotypes before they set seed.
 Thoroughly clean equipment before leaving fields known to contain resistant biotypes.

MIXING INSTRUCTIONS

Add about one-half the water to the mixing tank, then add this product with agitation and finally the rest of water with continuing agitation. NOTE: Adding oil, wetting agent, or other surfactants to the spray may increase effectiveness on weeds but also may reduce selectivity to crops, resulting in crop damage.

COMPATIBILITY

If this product is to be tank mixed with fertilizers or with other pesticides, compatibility should be tested prior to mixing. To test for compatibility, use a small container and mix a small amount (0.5 to 1 quart) of spray, combining all ingredients in the same ratio as the anticipated use. If any indications of physical incompatibility develop, do not use this mixture for spraying. Indications of incompatibility usually will appear within 5 to 15 minutes after mixing.

Read and follow all directions and precautions on this label and on the labels of any products for which a tank mixture is being considered.

APPLICATION PROCEDURES

Apply by air or ground equipment in sufficient gallonage to obtain adequate coverage, except as otherwise directed on this label. Use 2 or more gallons of water per acre for aerial application and 10 or more gallons of water per acre for ground application.

SPRAY DRIFT MANAGEMENT

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, relative humidity) and method of application (e.g., ground, aerial, airblast) can influence pesticide drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product.

Droplet Size

When applying sprays that contain 2,4-D as the sole active ingredient, or when applying sprays that contain 2,4-D mixed with active ingredients that require a Coarse or coarser spray, apply only as a Coarse or coarser spray (ASAE standard 572) or a volume mean diameter of 385 microns or greater for spinning atomizer nozzles.

When applying sprays that contain 2,4-D mixed with other active ingredients that require a Medium or more fine spray, apply only as a Medium or coarser spray (ASAE standard 572) or a volume mean diameter of 300 microns or greater for spinning atomizer nozzles.

Wind Speed

Do not apply at wind speeds greater than 15 mph. Only apply this product if the wind direction favors on-target deposition and there are not sensitive areas (including, but not limited to, residential areas, bodies of water, known habitat for nontarget species, nontarget crops) within 250 feet downwind. If applying a Medium spray, leave one swath unsprayed at the downwind edge of the treated field.

Temperature Inversions

If applying at wind speeds less than 3 mph, the applicator must determine if: a) conditions of temperature inversion exist, or b) stable atmospheric conditions exist at or below nozzle height. Do not make applications into areas of temperature inversions or stable atmospheric conditions.











Susceptible Plants

Do not apply under circumstances where spray drift may occur to food, forage, or other plantings that might be damaged or crops thereof rendered unfit for sale, use or consumption. Susceptible crops include, but are not limited to, cotton, okra, flowers, grapes (in growing stage), fruit trees (foliage), soybeans (vegetative stage), ornamentals, sunflowers, tomatoes, beans, and other vegetables, or tobacco. Small amounts of spray drift that might not be visible may injure susceptible broadleaf plants.

Other State and Local Requirements

Applicators must follow all state and local pesticide drift requirements regarding application of 2,4-D herbicides. Where states have more stringent regulations, they must be observed.

Equipment

All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers or surrogates.

Additional requirements for aerial applications:

The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter.

Release spray at the lowest height consistent with efficacy and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety. This requirement does not apply to forestry or rights-of-way applications.

When applications are made with a crosswind, the swath will be displaced downwind. The applicator must compensate for this by adjusting the path of the aircraft upwind.

Additional requirements for ground boom application:

Do not apply with a nozzle height greater than 4 feet above the crop canopy.

SMALL QUANTITY DILUTION TABLE

To spray small areas use the following dilution table.

If Dosage on Label Shows Following Rate Per Acre	Use this Amount for each Gallon of Water Per 1,000 Square Feet
2 pints (1 quart)	0.72 ounces (4.3 teaspoons)
3 pints (1-1/2 quarts)	1.1 ounces (2 tablespoons)
4 pints (2 quarts)	1.4 ounces (2.8 tablespoons)
6 pints (3 quarts)	2.2 ounces (4.4 tablespoons)

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WEED LIST				
Annual and Biennial Weeds				
Beggarticks*	Mallow* (venice or little)	Russian thistle*		
Bullthistle	Marshelder	Salsify (western or common)		
Coffeeweed	Morningglory (common, ivy, woolly)	Smartweeds* (annual species)		
Common cocklebur	Musk thistle* (***)	Sowthistle (annual or spiny)		
Common burdock	Mustards (except blue mustard)	Sunflower		
Common evening primrose	Pepper weeds (except perennial)	Vervains*		
Common lambsquarters	Pigweeds** (Amaranthus spp.)	Vetches		
Hairy galinsoga	Prickly lettuce	Wild carrot		
Jimsonweed	Ragweed (common or giant)	Wild lettuce		
Knotweed*	Rough fleabane	Wild parsnips		
	Perennial Weeds			
Bindweed* (hedge, field, European)	Goldenrod*	Orange hawkweed*		
Blue lettuce	Healall	Plantains		
Canada thistle*	Ground ivy*	Sowthistle (perennial)		
Catnip	Hoary cress*	Vervains*		
Chicory	Ironweed*	Wild garlic*		
Dandelion	Jerusalem artichoke	Wild onion*		
Docks*	Many flowered aster			
Dogbane*	Nettles* (including stinging)			

These species may require repeated applications and/or use of the higher rate on this product label even under ideal conditions for application.

^{***}Not registered for control of musk thistle in California.







^{**}Control of pigweeds in the High Plains area of Texas and Oklahoma may not be satisfactory with this product.



CROP SPECIFIC USE DIRECTIONS

APPLES, PEARS, STONE FRUIT AND NUT ORCHARDS (EXCEPT FILBERTS)

WEEDS IN CROPS	AMOUNT OF PLATOON PER ACRE	DIRECTIONS
Annual broadleaf weeds	3 pints	For control of weeds on the orchard floor, apply using coarse sprays and low pressure in sufficient volume of water to obtain thorough wetting of weeds. Treat when weeds are small and actively growing.

RESTRICTIONS AND LIMITATIONS FOR USE IN APPLES, PEARS, STONE FRUIT AND NUT ORCHARDS (EXCEPT FILBERTS)

- Do not apply to bare ground as injury may result.
- Do not apply immediately before irrigation and withhold irrigation for 2 days before and for 3 days after treatment.
- Do not allow spray to drift onto or contact foliage, fruit, stems, trunks of trees or exposed roots as injury may result.
 Do not apply to newly established or young orchards. Trees must be at least 1 year old and in vigorous condition.
- Do not apply during bloom.
- Do not graze or feed cover crops from treated orchards.
- Do not make more than 2 applications per crop cycle. Maximum of 4.2 pints (2.0 lbs. ae) per acre per application.
- (PHI) Do not harvest applies and pears within 14 days of application, stone fruit within 40 days of application and nuts within 60 days of application.
- For apples, pears and stone fruits, allow at least 75 days between applications.
- For tree nuts, allow at least 30 days between applications.
 Do not cut orchard floor forage for hay within 7 days of application.

FILBERTS

WEEDS IN CROPS	AMOUNT OF PLATOON PER ACRE	DIRECTIONS
Annual broadleaf weeds	2.1pints	Apply a maximum of 2.1 pints (1.0 lb. ae) in 100 gallons of spray solution per acre.

RESTRICTIONS AND LIMITATIONS FOR USE IN FILBERTS

- Do not apply to bare ground as injury may result.Do not use on light sandy soil.

- Do not apply immediately before irrigation and withhold irrigation for 2 days before and for 3 days after treatment.
 Do not allow spray to drift onto or contact foliage, fruit, stems, trunks of trees or exposed roots as injury may result.
- Do not apply to newly established or young orchards. Trees must be at least 1 year old and in vigorous condition.
- Do not apply during bloom.
- . Do not graze or feed cover crops from treated orchards.
- Do not make more than 4 applications per crop cycle. Maximum of 2.1 pints (1.0 lbs. ae) per acre per application.
- (PHI) Do not harvest filberts with 45 days of application.
 Allow at least 30 days between applications.
- Do not cut orchard floor forage for hay within 7 days of application.







CEREAL GRAINS

(Wheat, Barley, Millet, Oats, Rye and Triticale)

WEEDS IN CROPS	AMOUNT OF PLATOON PER ACRE	DIRECTIONS
Not underseeded with legumes Postemergence Annual and biennial broadleaf weeds Perennial broadleaf weeds	1/2 to 2 pints* 1 to 2 pints*	Apply after grain is well tillered (usually about 4 to 8 inches high). Do not spray grain in the boot to dough stage.
Underseeded with legumes	1/4 to 1/2 pint*	Apply after grain is 8 inches tall. Do not spray grain in boot to dough stage. Do not spray alfalfa or sweet clover unless the infestation is severe and injury to these legumes can be tolerated.
Emergency weed control in Triticale, Wheat Perennial broadleaf weeds	2.6 pints	Apply when weeds are approaching bud stage, after the grain dough stage. Do not spray during the boot to dough stage. The 2.6 pints per acre application can produce injury to wheat. Balance the severity of your weed problem against the possibility of crop damage. Where perennial weeds are scattered, spot treatment is suggested to minimize the extent of crop injury.

*Use the lower rate if small annual and biennial weeds are the major problem. Use the higher rate if perennial weeds or annual and blennial weeds are present which are in the hard-to-kill categories as determined by local experience. The higher rates increase the risk of grain injury and should be used only where the weed control problem justifies the grain damage risk. Do not apply this product to grain in the seedling stage.

RESTRICTIONS AND LIMITATIONS FOR USE ON CEREAL GRAINS

- For aerial application on grain, apply this product in 3 to 10 gallons of water per acre.
 For ground application a minimum of 10 to 15 gallons of water per acre is recommended for proper spray coverage.
 Do not permit dairy animals or meat animals being finished for slaughter to forage treated grain fields within 2 weeks after treatment.
 Do not feed treated straw to livestock if an emergency treatment as described above is applied.

- Do not feed treated straw to ilvestock if an emergency treatment as described a (PHI) Do not harvest within 14 days of application.
 Limit to one postemergence application per crop cycle.
 Limit to one preharvest application per crop cycle.
 Postemergence: Maximum of 2.6 pints (1.25 lbs. ae) per acre per application.
 Preharvest: Maximum of 1 pint (0.5 lb. ae) per acre per application.
 Limit to 3.6 pints product (1.75 lbs. ae) per acre per crop cycle.







CORN AND SORGHUM

WEEDS IN CROPS	AMOUNT OF PLATOON PER ACRE	DIRECTIONS
CORN (Field com, popcom and sweet com) Preplant	1 to 2 pints	To control emerged broadleaf weed seedlings or existing cover crops prior to planting corn, apply 7 to 14 days before planting. Do not use on light, sandy soil, or where soil moisture is inadequate for normal weed growth. Use high rate for less susceptible weeds or cover crops such as alfalfa.
Preemergence	2 pints	Apply 3 to 5 days after planting but before corn emerges. Do not use on light, sandy soils or where soil moisture is low.
Postemergence Annual broadleaf weeds Perennial broadleaf weeds	1/2 to 1 pint 1 pint	Apply when weeds are small and corn is less than 8 inches tall (to top of canopy). When corn is over 8 inches tall, use drop nozzles and keep spray off foliage. Treat perennial weeds when they are in the bud to bloom stage. Do not spray corn in the tassel to dough stage. Corn treated with 2,4-D may become temporarily brittle. Winds or cultivation may cause stalk breakage during the period of time when the corn is brittle.
Grain Sorghum (Milo) Postemergence	1 pint	Apply when sorghum is 6 to 15 inches tall. If sorghum is taller than 8 inches to top of the canopy, use drop nozzles and keep spray off the foliage. Do not treat during the boot, flowering or dough stage.

CORN (FIELD CORN, POPCORN AND SWEET CORN) AND SORGHUM RESTRICTIONS

Field Corn and Popcorn Restrictions

- Prelat Corn and Popcorn Restrictions

 (PHI) Do not harvest within 7 days of application.

 (PGI) Do not use treated crop as fodder for 7 days following application.

 Limited to one Preplant, one Postemergence and one Preharvest application per crop cycle.

 Preplant or Preemergence: Maximum of 2 pints (1.0 lb. ae) per acre.

 Postemergence: Maximum of 1 pint (0.5 lb. ae) per acre.

 Preharvest: Maximum of 3 pints (1.5 lbs. ae) per acre.

 Maximum of 6 pints (3.0 lbs. ae) per acre per crop cycle.

- Sweet Com Restrictions

 (PHI) Do not harvest within 45 days of application.

 (PGI) Do not use treated crop as fodder for 7 days following application.

 Limited to one Preplant and one Postemergence application per crop cycle.

 Preplant or Preemergence: Maximum of 2 pints (1.0 lb. ae) per acre.
- Postemergence: Maximum of 1 pint (0.5 lb. ae) per acre.
 Maximum of 3 pints (1.5 lbs. ae) per acre per crop cycle.
 Minimum of 21 days between applications.

Sorghum Restrictions

- (PHI) Do not harvest within 30 days of application.
- (PGI) Do not permit meat or dairy animals to consume treated crop as fodder or forage for 30 days following application.
 Limited to one Postemergence application per crop cycle.
 Postemergence: Maximum of 2 pints (1.0 lb. ae) per acre per crop cycle.







HOPS

WEEDS IN CROPS	AMOUNT OF PLATOON PER ACRE	DIRECTIONS
Annual broadleaf weeds	1 pint	Make directed applications to the row middles. Make up to 3 applications at 30-day intervals with the last application before harvest. DO NOT USE IN CALIFORNIA.

RESTRICTIONS AND LIMITATIONS FOR HOPS

- Limited to 3 applications per crop cycle.
 Maximum of 1 pint (0.5 lb. ae) per acre per application.
- Maximum of 3 pints (1.5 <u>lbs. ae</u>) per acre per crop cycle.
 Minimum of 30 days between applications.
- (PHI) Do not harvest within 28 days of application.

RICE

WEEDS IN CROPS	AMOUNT OF PLATOON PER ACRE	DIRECTIONS
Preplant	1 to 2 pints	Apply four or more weeks prior to planting rice. DO NOT USE IN CALIFORNIA.
Postemergence	1 to 2-1/2 pints	Apply when rice is in the late tillering stage of development at the time of first joint development. Do not apply after panicle initiation, after rice internodes exceed one-half inch, at early seedling, early panicle, boot or heading stages. Consult local university or Agricultural Extension Service specialists for more specific information on rates and timing of application. DO NOT USE IN CALIFORNIA.

- RESTRICTIONS AND LIMITATIONS FOR USE IN RICE

 Do not apply more than a total of 2-1/2 pints per acre of this product to rice per growing season.

 Do not use on rice in California without an approved Supplemental Label allowing the use.

- (PHI) Do not harvest within 60 days of application.
 Preplant: Limited to 1 preplant application per crop cycle. Maximum of 2 pints (1.0 lb. ae) per acre per preplant application.
 Postemergence: Limited to 1 postemergence application per crop cycle. Maximum of 3 pints (1.5 lbs. ae) per acre per postemergence application.

WILD RICE (For Use In Minnesota Only)

WEEDS IN CROPS	AMOUNT OF PLATOON PER ACRE	DIRECTIONS
Common water plantain	1/2 pint	Broadcast in 4 to 10 gallons total spray volume. Apply after water plantain has emerged from the water and when wild rice is in the 1 to 2 aerial leaf to early tillering stage. Do not spray after wild rice has reached the boot stage.

RESTRICTIONS AND LIMITATIONS FOR USE IN WILD RICE

- · For use only on wild rice grown in commercial paddies.
- Do not apply to wild rice growing in lakes, rivers or streams.
 Water that is drained out of wild rice paddies is not to be used to irrigate other crops. In order to protect federally listed endangered or threatened species, the Minnesota Department of Agriculture has a program to pre-notify landowners where pesticide applications may affect federally listed endangered or threatened species.
- Limited to 1 application per crop cycle.
 Do not apply more than 1/2 pint per acre of 2,4-D Amine 4 (0.25 lb. ae/A) per use season.
- (PHI) Do not harvest within 60 days of application.







RED POTATOES*

(Only for Use on Red Potatoes Intended for Fresh Market)

APPLICATION TIMING	AMOUNT OF PLATOON PER ACRE	DIRECTIONS
Postemergence	2.35 fl. oz.	Red Potatoes: Properly timed applications of this product generally enhance red color, aid in storage retention of red color, improve skin appearance, increase tuber set, and improve tuber size uniformity (fewer jumbos). Crop response may vary depending on variety, stress factors, and local conditions. Varieties with naturally dark red color generally benefit less from treatment.

PRECAUTIONS FOR USE ON RED POTATOES

- Make first application when potatoes are in the pre-bud stage (about 7 to 10 inches high) and make a second application about 10 to 14 days later.
- . Consult with Agricultural Extension Service and other qualified crop advisors for local recommendations.

RESTRICTIONS FOR USE ON RED POTATOES

- The preharvest interval (PHI) is 45 days.
- Minimum of 10 days between applications.
- Postemergence
- Limited to two postemergence application per crop cycle.
 Maximum of 2.35 fluid ounces (0.07 lb 2,4-D ae) per acre per application.
- Apply 2.35 fluid ounces of this product per acre in 5 to 25 gallons of water using ground or aerial equipment. The specific spray volume selected should be sufficient for good coverage of plants.

*Not currently registered in California.

SOYBEANS* (Preplant Only)



WEEDS IN CROPS	AMOUNT OF PLATOON PER ACRE	DIRECTIONS
Postemergence	3/4 to 1 pint	Apply not less than 15 days prior to planting soybeans, when weeds are small and actively growing. Use the higher rate on larger weeds and when perennials are present.
	>1 to 2 pints	Apply not less than 30 days prior to planting soybeans, when weeds are actively growing.

In addition to those weeds found on the GENERAL WEED LIST, this product will suppress or control the following broadleaf weeds frequently encountered in reduced tillage soybean production systems: alfalfa*, bullnettle, smallflowered bittercress, Carolina geranium, smallflowered buttercup, common and rough cinquefoil, red clover*, horseweed or marestail, mousetail, wild mustard, field pennycress, cutleaf evening primrose, common purslane, speedwell, velvetleaf, and Virginia copper Apply no more than 2.0 pints of this product in one season prior to planting soybeans. After applying, plant soybean seed as deep as practical or at least 1-1/2 to 2 inches deep. Adjust the planter press wheel, if necessary, to ensure that planted seed is completely

covered. If desired, this product may be applied pre-plant to soybeans in tank mixtures with other herbicides such as Poast®, Poast Plus®, Roundup®, Roundup D-Pak®, Honcho®, Gramoxone Extra®, Prowl®, Pursuit Plus®, Scepter®, Scepter 70 DG, Squadron® and others that are registered for pre-plant soybean use.

NOTE: Unacceptable injury to soybeans planted in fields previously treated with this product may occur and the extent of injury will depend on weather and agronomic factors such as the amount of weed vegetation and previous crop residue present that may be in effect between the time of application and the emergence of the soybean plant.

RESTRICTIONS AND LIMITATIONS FOR USE IN SOYBEANS (PREPLANT)

- Do not apply this product when weather conditions such as temperature, air inversions, or wind favor drift from treated areas to susceptible plants.
- Apply no more than 2.0 pints (1.0 lb. ae) of this product per acre in one season prior to planting soybeans.
- Only one application per growing season, regardless of the application rate used, is allowed.
 Do not apply this product prior to planting soybeans if you are not prepared to accept the results of soybean injury including possible loss of stand and yield. 10





- Do not replant fields treated with this product in the same growing season with crops other than those labeled for 2,4-D pre-plant use.
- Do not mow or cultivate weeds prior to treating with this product as poor control may result.
 Do not apply this product pre-plant to soybeans in fields having a coarse-textured soil where the percent organic matter is <1.0%.
 Only one application of this product may be made prior to planting soybeans per growing season.

*Not currently registered for use in California.

SUGARCANE

WEEDS IN CROPS	AMOUNT OF PLATOON PER ACRE	DIRECTIONS
Preemergence	4 pints	Apply before canes appear for control of emerged broadleaf weeds. DO NOT USE IN CALIFORNIA.
Postemergence	1-1/2 to 4 pints	Apply after cane emerges and through lay-by. DO NOT USE IN CALIFORNIA.

RESTRICTIONS AND LIMITATIONS FOR USE IN SUGARCANE

- Do not apply more than a total of 8 pints (4.0 lb. ae) of this product to sugarcane per acre per growing season.
 Do not harvest cane prior to crop maturity.

- Preemergence: Limited to 1 application per crop cycle. Maximum of 4 pints (2.0 lb. ae) per acre per application.
 Postemergence: Limited to 1 application per crop cycle. Maximum of 4 pints (2.0 lb. ae) per acre per application.

CONSERVATION RESERVE PROGRAM AREAS

WEEDS	AMOUNT OF PLATOON PER ACRE	DIRECTIONS
Annual broadleaf weeds In young grasses In established grasses	1/2 to 1 pint 1/2 to 2 pints	Apply to actively growing annual broadleaf weeds. Use 1/2 to 1 pint when weeds are small; use higher rates on older weeds. Do not apply to young grasses with fewer than 6 leaves or prior to tillering, as excessive injury may result. Do not apply more than 1 pint until grasses are well established as excessive injury may result.
Biennial and perennial broadleaf weeds In established grasses	2 to 4 pints	Treat when biennial weeds are in the seedling to rosette stage and before flower stalks become apparent. Treat perennial weeds in the bud to bloom stage. Apply to actively growing weeds.

RESTRICTIONS AND LIMITATIONS FOR USE ON CONSERVATION RESERVE PROGRAM AREAS

- Use at least 2 gallons of water per acre by air and 5 gallons of water per acre by ground.
 Do not apply to grasses in the boot to dough stage if grass seed production is desired.
- Do not cut forage for hay within 7 days of application.
 Postemergence:

- For susceptible annual and blennial broadleaf weeds, do not exceed 2 pints (1.0 lb. ae) per acre per application.
 For moderately susceptible blennial and perennial broadleaf weeds and for difficult to control weeds and woody plants, do not exceed 4 pints (2.0 lbs. ae) per acre per application.

- Spot treatments do not exceed 4 pints (2.0 lbs. ae) per acre.
 Maximum of 2 applications per year.
 Maximum of 8 pints (4.0 lbs. ae) per acre per year.

- Maintum of 30 days between applications.
 If grass is to be cut for hay, Agricultural Use Requirements for the Worker Protection Standard are applicable.
 For program lands, such as Conservation Reserve Program, consult program rules to determine whether grass or hay may be used.
 The more restrictive requirements of the program rules or this label must be followed.





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ESTABLISHED GRASS PASTURES, RANGELAND AND GRASS CUT FOR HAY

WEEDS	AMOUNT OF PLATOON PER ACRE	DIRECTIONS
Annual broadleaf weeds	2 pints	Apply when weeds are small and actively growing and prior to bud stage. Spray while musk thistles or other biennial species are in the seedling to rosette stage and before flower stalks become apparent.
Biennial and perennial broadleaf weeds	2 to 4 pints	The lower rate can be used in the spring during rosette stage. Use the highest rate in the fall or after flower stalks have developed. Do not apply to newly seeded areas until grass is well established. Do not apply to grass in the early boot through milk stage if grass seed production is desired. Bentgrass and legumes may be injured by this treatment.

RESTRICTIONS AND LIMITATIONS FOR USE ON ESTABLISHED GRASS PASTURES, RANGELAND AND GRASS CUT FOR HAY

- Do not cut forage for hay within 7 days of application.
 Postemergence:
- For susceptible annual and biennial broadleaf weeds, do not exceed 2 pints (1.0 lb. ae) per acre per application.
- For moderately susceptible biennial and perennial broadleaf weeds and for difficult to control weeds and woody plants, do not exceed 4 pints (2.0 lbs. ae) per acre per application.
- Spot treatments do not exceed 4 pints (2.0 lbs. ae) per acre.
- Maximum of 2 applications per year.
 Maximum of 8 pints (4.0 lbs. ae) per acre per year.
- Minimum of 30 days between applications.
 If grass is to be cut for hay, Agricultural Use Requirements for the Worker Protection Standard are applicable.

FALLOWLAND AND CROP STUBBLE

Idle Land, or Postharvest to Crops, or Between Crops

WEEDS	AMOUNT OF PLATOON PER ACRE	DIRECTIONS
Annual broadleaf weeds	1 to 2 pints	Use the lower rate when weeds are small (2 to 3 inches tall) and actively growing. Use the higher rate on older and drought-stressed plants.
Biennial broadleaf weeds	2 to 4 pints	Spray when musk thistles or other biennial species are in the seedling to rosette stage and before flower stalks become apparent. The lower rate can be used in the spring during rosette stage. Use the highest rate in the fall or after flower stalks have developed.
Perennial broadleaf weeds	2 to 4 pints	Spray weed in the bud to bloom stage or while in good vegetative growth. Do not disturb treated areas for at least 2 weeks after treatment, or until tops are dead.
Wild garlic and onion in crop stubble	4 pints	Apply to new regrowth of wild garlic or onion which occurs in the fall following harvest of small grains, corn or grain sorghum.

RESTRICTIONS AND LIMITATIONS FOR USE IN FALLOWLAND AND CROP STUBBLE

- Limit to two applications per year.
 Maximum single rate application of 4 pints (2.0 lbs. ae) per acre.
- Maximum of 8 pints (4.0 lbs. ae) per acre per year.
 Plant only labeled crops within 29 days following application.
- Minimum of 30 days between applications.







GRASSES FOR SEED PRODUCTION

WEEDS IN CROPS	AMOUNT OF PLATOON PER ACRE	DIRECTIONS
Annual and perennial broadleaf weeds	2 to 4 pints	Apply to established stands in spring from tiller to early boot stage. Do not spray in boot stage. New spring seedings may be treated with the lower rate after grass seedlings have at least 5 leaves. Perennial weed regrowth may be treated in the fall.

RESTRICTIONS AND LIMITATIONS FOR USE ON GRASSES FOR SEED PRODUCTION

- Do not graze dairy animals or cut forage for hay within 7 days of application.
- Maximum of 4 pints (2.0 lbs. ae) per acre per application.
 Limited to 2 applications per year.
 Minimum of 21 days between applications.

NON-CROPLAND

(Fencerows, Hedgerows, Roadsides, Ditches, Right-of-Way, Utility Power Lines, Railroads and Industrial Sites)

WEEDS	AMOUNT OF PLATOON PER ACRE	DIRECTIONS
Annual broadleaf weeds	2 to 4 pints	Treat when weeds are young and actively growing. Perennial weeds should be near the bud stage, but not flowering at application. Do not use on susceptible southern grasses such as
Biennial and perennial broadleaf weeds	4 pints	St. Augustine. Do not apply to newly seeded areas until grass is well established. Bentgrass, clover, legumes and dichondra may be injured by this treatment.

RESTRICTIONS AND LIMITATIONS FOR USE ON NON-CROPLAND

- Applications to non-cropland areas are not applicable to treatment of commercial timber or other plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes.
- Postemergence (annual and perennial weeds):
- Limit 2 applications per year.

 Maximum of 4 pints (2.0 lbs. ae) per acre per application.
- Minimum 30 days between applications.
- Postemergence (woody plants):
- Limit 1 application per year.
- Maximum of 8 pints (4.0 lbs. ae) per acre per application.

SPOT TREATMENT IN NON-CROP AREAS

Mix 2 to 3 fluid ounces of this product in 3 gallons of water. Wet all weeds and stems thoroughly. For best results, treat when weeds are actively growing.

ORNAMENTAL TURF AREAS

Golf Courses, Cemeteries, Parks, Turfgrass, and Other Grass Areas

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WEEDS	AMOUNT OF PLATOON PER ACRE	DIRECTIONS	
Annual broadleaf weeds	2 to 3 pints	Treat when weeds are young and actively growing. Perennial weeds should be near the bud stage, but not flowering at application. Do not use on susceptible southern grasses such as	
Biennial and perennial broadleaf weeds	3 pints	St. Augustine. Do not apply to newly seeded area until grass is well established. Bentgrass, clover, legumes and dichondra may be injured by this treatment.	

RESTRICTIONS AND LIMITATIONS FOR USE ON ORNAMENTAL TURF AREAS

- Use sufficient gallonage for thorough and uniform coverage.
 Do not apply more than 2 broadcast applications per year per treatment site. This does not exclude spot treatments.
- Maximum of 3 pints (1.5 lbs. ae) per acre per application.
- Maximum of 6 pints (3.0 lbs. ae) per acre per year, excluding spot treatments. 13







POPLAR/COTTONWOOD TREES GROWN FOR PULP BROADLEAF WEED CONTROL

This product may be applied through wick applicators or conventional ground sprayers. (Excluding irrigation systems) Do not allow this product to contact leaves or green bark of the tree. Use 1/2 pint to 3 pints per acre in enough water to provide uniform coverage prior to or after planting of Poplar/Cottonwood trees. Application during warm weather is preferred. Apply when weeds are actively growing, preferably before bud stage. Repeat treatment may be necessary for less susceptible weeds; re-apply as needed. Accord® may be mixed with this product to increase weed control. Follow both labels to determine correct rates. Two quarts or more of a spreader -activator per 100 gallons of spray solution may be added to improve herbicide performance.

RESTRICTIONS AND LIMITATIONS FOR USE ON POPLAR/COTTONWOOD TREES GROWN FOR PULP BROADLEAF WEED CONTROL

Limited to 1 broadcast application per year. Maximum of 8 pints (4.0 lbs. ae) per acre per broadcast application.

BIOENERGY CROPS - GRASSES

WEED CONTROL IN GIANT REEDGRASS (Arundo donax), SWITCHGRASS (Panicum virgatum), GIANT MISCANTHUS (Miscanthus x giganteus) AND OTHER NON-FOOD PERENNIAL GRASS BIOENERGY CROPS.

USE INSTRUCTIONS

This product may be applied for broadleaf weed control in giant reedgrass (Arundo donax), switchgrass (Panicum virgatum) giant Miscanthus (Miscanthus x giganteus) and other non-food perennial grass bioenergy crops.

For perennial grasses, apply no earlier than 4-leaf stage. Apply 1/2 to 2 pints per acre to seedling grasses with ground or air equipment. A rate of 1 to 4 pints per acre should be used when grasses are well established.

RESTRICTIONS AND LIMITATIONS

- Limited to 2 broadcast applications per year.
- Maximum of 4 pints (2.0 lb. ae) per acre per application.
- Minimum of 30 days between applications.
- Apply by air or ground equipment in sufficient gallonage to obtain adequate coverage. Minimum of 2 gallons of water per acre for aerial
 application and 10 or more for ground application is recommended.
- Do not spray immediately before irrigation and withhold above-ground irrigation for 3 days after application.
- Treated plantings not to be consumed by human or animal.

BIOENERGY CROPS - TREES

WEED CONTROL IN HYBRID POPLAR TREES, COTTONWOOD TREES AND WILLOW TREES GROWN AS BIOENERGY CROPS USE INSTRUCTIONS

This product may be used in hybrid poplar trees, cottonwood trees and willow trees grown as bioenergy crops. Application during warm weather is preferred. Apply when weeds are actively growing, preferably before bud stage. Repeat treatment may be necessary for less susceptible weeds: re-apply as needed.

For hybrid poplar, cottonwood and willow make application prior to or after planting. For ground spray equipment, use 1/2 to 3 pints per acre. Apply 1 to 4 pints per acre using wick type applicators that treat weeds directly. Crop injury may result if the wick, wick solution or spray solution contact leaves or green bark of the crop trees.

NOTE: Extreme care should be exercised to avoid contact of the spray solution, spray, drift, or mist with tree foliage, green bark of trucks, stems or exposed roots of the poplar, cottonwood and will trees. Contact of the spray solution to these parts can result in serious damage. Even when using extreme care in application of this product, injury to crops from this herbicide may occur. If you are not prepared to accept some degree of crop injury, do not use this product.

TANK MIXTURES

This product may be tank mixed with Credit 41 Herbicide (EPA Reg. No. 71368-20) to provide broader spectrum of control.

RESTRICTIONS AND LIMITATIONS

- Limited to 1 broadcast applications per year.
- Maximum of 4 pints (2.0 lb. ae) per acre per application.
- · Minimum of 30 days between applications.
- Use sufficient spray volume for thorough and uniform coverage, but a minimum of 10 gallons per acre for broadcast application.
- Do not apply this product by air for use of weed control in hybrid poplar tree, cottonwood trees and willow tress grown as bioenergy crops.
- Do not use this product in or near greenhouses, for use of weed control in hybrid poplar tree, cottonwood trees and willow tress grown as bioenergy crops.
- Do not spray immediately before irrigation and withhold above-ground irrigation for 3 days after application.
- Treated plantings not to be consumed by human or animal.





FORESTRY - TREE INJECTION

For Controlling Species Such as Alder, Aspen, Birch, Blackgum, Cherry, Oak, Sweetgum, and Tulip Poplar

Make injections as near to the root collar as possible, using one injection per inch of trunk dbh (4-1/2 feet). For resistant species such as hickory, injections should overlap. For best results, injections should be made during the growing season, May 15th through October 15th.

For Dilute Injection

Mix 1 gallon of product in 19 gallons of water for dilute injections.

For Concentrate Injections

Use 1 to 2 ml of concentrate PLATOON per injection. The injection bit must penetrate the inner bark.

RESTRICTIONS AND LIMITATIONS FOR USE ON FORESTRY - TREE INJECTION

Limited to 1 injection application per year. Maximum of 2 ml of 4.0 lbs. ae formulation per injection site.

WEEDS AND BRUSH ON IRRIGATION CANAL DITCHBANKS

(Seventeen Western States: Arizona, California, Colorado, Idaho, Kansas, Montana, Nebraska, New Mexico, Nevada, North Dakota, Oklahoma, Oregon, South Dakota, Texas, Utah, Washington, and Wyoming)

For Control of Annual and Perennial Broadleaf Weeds

Apply 1 to 2 quarts of this product per acre in approximately 20 to 100 gallons per acre. Treat when weeds are young and actively growing before the bud or early bloom stage. For harder-to-control weeds, a repeat spray after 30 days using the same rates may be needed for maximum results. Apply no more than two treatments per season.

For Woody Brush and Patches of Perennial Broadleaf Weeds

Mix 1/2 gallon of product in 150 gallons of water. Wet foliage thoroughly using about 1 gallon of solution per square rod.

Spraying Instructions

Apply with low pressure (10 to 40 psi) power spray equipment mounted on a truck, tractor, or boat. Apply while traveling upstream to avoid accidental concentration of chemical into water. Spray when the air is fairly calm, 5 mph or less. Do not use on small canals (less than 10 cfs) where water will be used for drinking purposes.

Boom spraying onto water surface must be held to a minimum and no cross-stream spraying to opposite banks should be permitted. When spraying shoreline weeds, allow no more than 2 foot overspray onto water with an average of less than 1 foot overspray to prevent introduction of greater than negligible amounts of chemical into the water.

RESTRICTIONS AND LIMITATIONS FOR USE ON IRRIGATION CANAL DITCHBANKS

- Do not allow dairy animals to graze on treated areas for at least 7 days after spraying.
- Water within treated banks should not be fished.
- Postemergence: Limited to 2 applications per season. Maximum of 4 pints (2.0 lbs. ae) per acre per application. Minimum of 30 days between applications. Spot treatment permitted.

Do not use on small canals with a flow rate less than 10 cubic feet per second (CFS) where water will be used for drinking purposes. CFS may be estimated by using the formula below. The approximate velocity needed for the calculation can be determined by observing the length of time that it takes a floating object to travel a defined distance.

Divide the distance (ft.) by the time (sec.) to estimate velocity (ft. per sec.). Repeat 3 times and use the average to calculate CFS.

Average Width (ft.) x Average Depth (ft.) x Average Velocity (ft. per sec.) = CFS

For ditchbank weeds:

- Do not allow boom spray to be directed onto water surface.
- . Do not spray across stream to opposite bank.

For shoreline weeds:

Allow no more than 2 foot overspray onto water.

AQUATIC WEED CONTROL

For Use in Ponds, Lakes, Reservoirs, Marshes, Bayous, Drainage Ditches, Non-Irrigation Canals, Rivers and Streams that are Quiescent or Slow Moving.

NOTICE TO APPLICATORS

State and Local Coordination

Before application, coordination and approval of local and state authorities may be required, either by letter of agreement or issuance of special permits for such use.

Wind Velocity - Ground or Surface Application: Do not apply when wind speeds are at or above 10 mph. Air Application: Do not apply when wind speeds are at or above 5 mph. The restrictions do not apply to subsurface applications used in weed control programs.

WATER HYACINTH (Eichornia crasipe) - Directions For Use

This product will control water hyacinth with surface and air applications.

Amounts to Use: 2 to 4 quarts (4 lb. acid equivalent per gallon) per acre. Spray the weed mass only. Use 4 quarts when plants are matured or when the weed mass is dense.







When To Apply: Spray when water hyacinth plants are actively growing. Repeat as necessary to kill regrowth and hyacinth plants missed in the previous operation.

How To Use - Surface Application: Use power sprayers operated with a boom or spray gun mounted on a boat, tractor or truck. Thorough wetting of foliage is essential for maximum control. Use 100 to 400 gal. per acre of spray mixture. Special precautions such as the use of low pressure, large nozzles and thickening agents should be taken to avoid spray drift in areas of sensitive crops. For DIRECTA-SPRA™ operation use this product with 1 pint of drift control agent in 50 to 100 gallons of water. For other applications, follow the drift control agent label for mixing directions.

Air Application: Use drift control spray equipment or thickening agents mixed into the spray solution. Apply 1.0 gallon per acre of this product through standard boom systems with a minimum of 5 gallons of spray mix per acre. For MICROFOIL® drift control spray systems, apply this product in 12 to 15 gallons spray mix per acre.

2,4-D Acid Equivalent	1/2 pound	1 pound	2 pounds	3 pounds	4 pounds	
PLATOON	1 pint	2 pints	2 quarts	3 quarts	4 quarts	
RESTRICTIONS						

FLOATING AND EMERGENT WEEDS:

- Maximum of 8 pints per surface acre per application.
- · Limited to 2 applications per season.
- Minimum of 21 days between applications.
- · Spot treatments are permitted.

Apply to emergent aquatic weeds in ponds, lakes, reservoirs, marshes, bayous, drainage ditches, non-irrigation canals, rivers, and streams that are quiescent or slow moving. Coordination and approval of local and state authorities may be required, either by letter of agreement or issuance of special permits for aquatic applications.

WATER USE

- 1. Water for irrigation or sprays:
 - A. If treated water is intended to be used only for crops or non-crop areas that are labeled for direct treatment with 2,4-D such as pastures, turf, or cereal grains, the treated water may be used to irrigate and/or mix sprays for these sites at anytime after the 2,4-D aquatic application.
 - B. Due to potential phytotoxicity considerations, the following restrictions are applicable:

If treated water is intended to be used to irrigate or mix sprays for plants grown in commercial nurseries and greenhouses; and other plants or crops that are not labeled for direct treatment with 2,4-D, the water must not be used unless one of the following restrictions has been observed:

- i. A setback distance from functional water intake(s) of greater than or equal to 600 ft. was used for the application, or,
- ii. A waiting period of 7 days from the time of application has elapsed, or,
- iii. An approved assay indicates that the 2,4-D concentration is 100 ppb (0.1 ppm) or less at the water intake. Wait at least 3 days after application before initial sampling at water intake.
- 2. Drinking water (potable water):
 - A. Consult with appropriate state or local water authorities before applying this product to public waters. State or local agencies may require permits. The potable water use restrictions on this label are to ensure that consumption of water by the public is allowed only when the concentration of 2,4-D in the water is less than the MCL (Maximum Contaminant Level) of 70 ppb. Applicators should consider the unique characteristics of the treated waters to assure that 2,4-D concentrations in potable water do not exceed 70 ppb at the time of consumption.
 - B. For floating and emergent weed applications, the drinking water setback distance from functioning potable water intakes is greater than or equal to 600 ft.
 - C. If no setback distance of greater than or equal to 600 ft. is used for application, applicators or the authorizing organization must provide a drinking water notification prior to a 2,4-D application to the party responsible for public water supply or to individual private water uses. Notification to the party responsible for a public water supply or to individual private water users must be done in a manner to assure that the party is aware of the water use restrictions when this product is applied to potable water. The following is an example of a notification via posting, but other methods of notification which convey the above restrictions may be used and may be required in some cases under State or local law or as a condition of a permit.

Example: Posting notification should be located every 250 feet including the shoreline of the treated area and up to 250 feet of shoreline past the application site to include immediate public access points. Posting must include the day and time of application. Posting may be removed if analysis of a sample collected at the intake 3 or more days following application shows that the concentration in the water is less than 70 ppb (100 ppb for irrigation or sprays), or after 7 days following application, whichever occurs first.

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Text of notification: Wait 7 days before diverting functioning surface water intakes from the treated aquatic site to use as drinking water, irrigation, or sprays, unless water at functioning drinking water intakes is tested at least 3 days after application and is demonstrated by assay to contain not more than 70 ppb 2,4-D (100 ppb for irrigation or sprays).

Application Date: _ ___ Time: _ D. Following each application of this product, treated water must not be used for drinking water unless one of the following restrictions has been observed:

- i. A setback distance from functional water intake(s) of greater than or equal to 600 ft. was used for the application, or
- ii. A waiting period of 7 days from the time of application has elapsed, or,
- iii. An approved assay indicates that the 2,4-D concentration is 70 ppb (0.07 ppm) or less at the water intake. Sampling for drinking water analysis should occur no sooner than 3 days after 2,4-D application. Analysis of samples must be completed by a laboratory that is certified under the Safe Drinking Water Act to perform drinking water analysis using a currently approved version of analytical Method Number 515, 555, other methods for 2,4-D as may be listed in Title 40 CFR, Part 141.24, or Method Number 4015 (immunoassay of 2,4-D) from U.S. EPA Test Methods for Evaluating Solid Waste SW-846.
- E. Note: Existing potable water intakes that are no longer in use, such as those replaced by a connection to a municipal water system or a potable water well, are not considered to be functioning potable water intakes.
- F. Drinking water setback distances do not apply to terrestrial applications of 2,4-D adjacent to water bodies with potable water
- 3. Except as stated above, there are no restrictions on using water from treated areas for swimming, fishing, watering livestock or domestic purposes.

WATER MILFOIL (Myriophyllum spicatum) - Directions For Use

This product will control water milfoil with surface, subsurface and air applications.

How To Use: To control water milfoil when less than 5 gallons of concentrate per acre is recommended, dilute the concentrate with water to apply a minimum of 5 gallons of spray mix per acre. Do not treat within 1/2 mile of potable water intakes. Shoreline areas should be treated by sub-surface injection applied by boat to avoid aerial drift. Do not apply when weather conditions favor drift from target area. Do not contaminate water by cleaning of equipment washwaters.

Open Water Areas: To reduce contamination and prevent undue exposure to fish and other aquatic organisms, do not treat water areas that are not infested with aquatic weeds.

Amounts To Use: Apply 2.5 to 2.75 gallons of this product per acre. The higher rate is used in areas of greater water exchange. These areas may require a repeat application.

When To Apply: For best results, apply in spring or early summer when milfoil starts to grow. This timing can be checked by sampling the lake bottom in areas heavily infested with weeds the year before.

Subsurface Application: Apply 2.5 to 2.75 gallons of this product per acre as a concentrate directly into the water through boat mounted distribution systems.

Surface Application: Apply 2.5 to 2.75 gallons of this product per acre in a minimum spray volume of 5 gallons mix per acre.

Air Application: Use drift control spray equipment or thickening agents mixed into the spray solution. Apply 2.5 to 2.75 gallons per acre of this product through standard boom systems with a minimum of 5 gallons of spray mix per acre. For MICROFOIL® drift control spray systems apply this product in 12 to 15 gallons spray mix per acre.

Do not apply within 21 days of previous application.

When treating moving bodies of water, applications must be made while traveling upstream to prevent concentration of 2,4-D downstream from the application.

RESTRICTIONS

SUBMERSED AQUATIC WEEDS:

- Maximum of 22.7 pints (10.8 lbs. ae) per acre-foot per application.
- · Limited to 2 applications per season.

Apply to aquatic weeds in ponds, lakes, reservoirs, marshes, bayous, drainage ditches, non-irrigation canals, rivers, and streams that are quiescent or slow moving. Do not apply within 21 days of previous application. When treating moving bodies of water, applications must be made while traveling upstream to prevent concentration of 2,4-D downstream from the application. Coordination and approval of local and State authorities may be required, either by letter of agreement or issuance of special permits for such use.







SURFACE AREA	Average Depth	For Typical Conditions 2 ppm 2,4-D ae/acre-foot	For Difficult Conditions 4 ppm 2,4-D ae/acre-foot
	1 ft.	5.4 lbs. (11.3 pts. product)	10.8 lbs. (22.7 pts. product)
	2ft.	10.8 lbs. (22.7 pts. product)	21.6 lbs. (45.4 pts. product)
1 Acre	3 ft.	16.2 lbs. (34.1 pts. product)	32.4 lbs. (68.2 pts. product)
	4 ft.	21.6 lbs. (45.4 pts. product)	43.2 lbs. (90.9 pts. product)
	5 ft.	27.0 lbs. (56.8 pts. product)	54.0 lbs. (113.6 pts. product)

WATER USE

- 1. Water for irrigation or sprays:
- A. If treated water is intended to be used only for crops or non-crop areas that are labeled for direct treatment with 2,4-D such as pastures, turf, or cereal grains, the treated water may be used to irrigate and/or mix sprays for these sites at anytime after the 2,4-D aquatic application.
- B. Due to potential phytotoxicity and/or residue considerations, the following restrictions are applicable:

If treated water is intended to be used to irrigate or mix sprays for unlabeled crops, noncrop areas or other plants not labeled for direct treatment with 2,4-D, the water must not be used unless one of the following restrictions has been observed:

- i. A setback distance described in the Drinking Water Setback Table was used for the application, or,
- ii. A waiting period of 21 days from the time of application has elapsed, or,
- iii. An approved assay indicates that the 2,4-D concentration is 100 ppb (0.1 ppm) or less at the water intake. See Table 3 for the waiting period after application but before taking the initial sampling at water intake.
- 2. Drinking water (potable water):
 - A. Consult with appropriate state or local water authorities before applying this product to public waters. State or local agencies may require permits. The potable water use restrictions on this label are to ensure that consumption of water by the public is allowed only when the concentration of 2,4-D in the water is less than the MCL (Maximum Contaminant Level) of 70 ppb. Applicators should consider the unique characteristics of the treated waters to assure that 2,4-D concentrations in potable water do not exceed 70 ppb at the time of consumption.
 - B. For submersed weed applications, the drinking water setback distances from functioning potable water intakes are provided in Table 2. Drinking Water Setback Distance (below).
 - C. If no setback distance from the Drinking Water Setback Distance Table (Table 2) is to be used for the application, applicators or the authorizing organization must provide a drinking water notification and an advisory to shut off all potable water intakes prior to a 2,4-D application. Notification to the party responsible for a public water supply or to individual private water users must be done in a manner to assure that the party is aware of the water use restrictions when this product is applied to potable water. The following is an example of a notification via posting, but other methods of notification which convey the above restrictions may be used and may be required in some cases under State or local law or as a condition of a permit.

Example: Posting notification should be located every 250 feet including the shoreline of the treated area and up to 250 feet of shoreline past the application site to include immediate public access points. Posting should include the day and time of application. Posting may be removed if analysis of a sample collected at the intake no sooner than stated in Table 3 (below) shows that the concentration in the water is less than 70 ppb (100 ppb for irrigation or sprays), or after 21 days following application, whichever

Text of notification: Wait 21 days before diverting functioning surface water intakes from the treated aquatic site to use as drinking water, irrigation, or sprays, unless water at functioning drinking water intakes is tested no sooner than (insert days from Table 3) and is demonstrated by assay to contain not more than 70 ppb 2,4-D (100 ppb for irrigation or sprays). Time: Application Date:

- D. Following each application of this product, treated water must not be used for drinking water unless one of the following restrictions has been observed:
 - i. A setback distance described in the Drinking Water Setback Distance Table was used for the application, or
 - ii. A waiting period of at least 21 days from the time of application has elapsed, or,





- iii. An approved assay indicates that the 2,4-D concentration is 70 ppb (0.07 ppm) or less at the water intake. Sampling for drinking water analysis should occur no sooner than stated in Table 3. Analysis of samples must be completed by a laboratory that is certified under the Safe Drinking Water Act to perform drinking water analysis using a currently approved version of analytical Method Number 515, 555, other methods for 2,4-D as may be listed in Title 40 CFR, Part 141.24, or Method Number 4015 (immunoassay of 2,4-D) from U.S. EPA Test Methods for Evaluating Solid Waste SW-846.
- E. Note: Existing potable water intakes that are no longer in use, such as those replaced by a connection to a municipal water system or a potable water well, are not considered to be functioning potable water intakes.
- F. Drinking water setback distances do not apply to terrestrial applications of 2,4-D adjacent to water bodies with potable water
- 3. Except as stated above, there are no restrictions on using water from treated areas for swimming, fishing, watering livestock or domestic purposes.

APPLICATION RATE AND	MINIMUM SETBACK DISTANC	E (FEET) FROM FUNCTIONING	POTABLE WATER INTAKE
1 ppm*	2 ppm*	3 ppm*	4 ppm*
600	1200	1800	2400

MINI	MUM DAYS AFTER APPLICATION AT THE FUNCTIONING F	N BEFORE INITIAL WATER SAM OTABLE WATER INTAKE	PLING	
1 ppm* 2 ppm* 3 ppm* 4 ppm*				
5	10	10	14	

Use of this product in certain portions of California, Oregon, and Washington is subject to the January 22, 2004 Order for injunctive relief in <u>Washington Toxics Coalition</u>, et al. v. EPA, C01 32C, (W.D. WA). For further information, please refer to EPA Web Site: http://www.epa.gov/espp.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Store in original container in a dry, secured storage area. Keep container tightly closed when not in use. Store at temperature above 32°F. If allowed to freeze, warm to at least 40°F and remix before using. Freezing does not alter this product. PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law and may contaminate ground water. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING: NOTE: This product is available in multiple containers. Refer to the Net Contents section of this products labeling for the applicable "Nonrefillable" or "Refillable" designation. Follow the container handling instructions below that apply to your container type / size.

Nonrefillable Containers 5 Gallons or Less: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.







STORAGE AND DISPOSAL (continued)

Nonrefillable Containers Larger than 5 Gallons: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable Container Larger than 5 Gallons: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

WARRANTY DISCLAIMER

The directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, OR THE MANNER OF USE OR APPLICATION, INCLUDING WEATHER, ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER. THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER, MANUFACTURER AND SELLER, AND NO PERSON OR AGENT OF MANUFACTURER OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION OR WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS.

LIMITATION OF LIABILITY

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, OR FOR DAMAGES IN THEIR NATURE OF PENALTIES RELATING TO THE GOODS SOLD, INCLUDING USE, APPLICATION, HANDLING, AND DISPOSAL. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, MANUFACTURER OR SELLER SHALL NOT BE LIABLE TO BUYER OR USER BY WAY OF INDEMNIFICATION TO BUYER OR TO CUSTOMERS OF BUYER, IF ANY, OR FOR ANY DAMAGES OR SUMS OF MONEY, CLAIMS OR DEMANDS WHATSOEVER, RESULTING FROM OR BY REASON OF, OR RISING OUT OF THE MISUSE, OR FAILURE TO FOLLOW LABEL WARNINGS OR INSTRUCTIONS FOR USE, OF THE GOODS SOLD BY MANUFACTURER OR SELLER TO BUYER. ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER, USER, OR ITS CUSTOMERS. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S OR USER'S EXCLUSIVE REMEDY, AND MANUFACTURER'S OR SELLER'S TOTAL LIABILITY SHALL BE FOR DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT.

If you do not agree with or do not accept any of directions for use, the warranty disclaimers, or limitations on liability, do not use the product, and return it unopened to the Seller, and the purchase price will be refunded.

RV073015 [1]

NOTICE TO BUYER

Purchase of this material does not confer any rights under patents governing this product or the use thereof in countries outside of the United States.

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PLATOON[®]

A SELECTIVE WEED KILLER

ACTIVE INGREDIENT: 2,4-Dichlorophenoxyacetic acid, dimethylamine salt*
OTHER INGREDIENTS: 2,4-Dichlorophenoxyacetic acid equivalent 38.9% by weight or 3.8 pounds per gallon. Isomer specific by AOAC method No. 978.05

KEEP OUT OF REACH OF **CHILDREN** DANGER / PELIGRO

PRECAUCION AL USUARIO: Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

SEE ATTACHED BOOKLET FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS FOR USE

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300 For Medical Emergencies Only, Call (877) 325-1840

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS **DANGER / PELIGRO**

Corrosive. Causes irreversible eye damage. Harmful if swallowed. Do not get in eyes, on skin or on clothing.

Refer to booklet for complete Personal Protective Equipment, Engineering Controls Statement, User Safety Requirements, Environmental Hazards and Directions For Use.

	FIRST AID
IF IN EYES	Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
IF SWALLOWED	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
	HOT I ME MUMBED

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-325-1840 for emergency medical treatment information.

NOTE TO PHYSICIANS

This product contains a phenoxy herbicidal chemical. There is no specific antidote. All treatments should be based on observed signs and symptoms of distress in the patient. Probable mucosal damage may contraindicate the use of gastric lavage. Overexposure to materials other than this product may have occurred.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Store in original container in a dry, secured storage area. Keep container tightly closed when not in use. Store at temperature above 32°F. If allowed to freeze, warm to at least 40°F and remix before using. Freezing does not alter this product.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law and may contaminate ground water. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING: NOTE: This product is available in multiple containers. Refer to the Net Contents section of this products labeling for the applicable "Nonrefillable" or "Refillable" designation. Follow the container handling instructions below that apply to your container type / size.

handling instructions below that apply to your container type / size. Nonrefillable Containers 5 Gallons or Less: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repart this procedure by more times. Then offer for recycling or drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

by Durling. If Durling, stay out of smoke.

Nonrefillable Containers Larger than 5 Gallons: Nonrefillable container.

Do not reuse or refill this container. Offer for recycling if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and it it hack and forth exercise times. Turk the container on the set has end one complete revolution, for 30 seconds, stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposail. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable Container Larger than 5 Gallons: Refillable container, Refill this Refillable Container Larger than 5 Gallons: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the replace of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

EPA Reg. No. 228-145

Manufactured for Nufarm Americas Inc. EPA Est No. 228-IL-001 11901 S. Austin Avenue | Alsip, IL 60803

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: UAP Timberland Platoon®

EPA Reg. No.: 228-145 **Product Type:** Herbicide

Company Name: Nufarm Americas Inc.

11901 S. Austin Avenue

Alsip, IL 60803 1-800-345-3330

Telephone Numbers: For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident,

Call CHEMTREC Day or Night: 1-800-424-9300 For Medical Emergencies Only, Call 1-877-325-1840

This product is an EPA FIFRA registered pesticide. Some classifications on this SDS are not the same as the FIFRA label. Certain sections of this SDS are superseded by federal law governed by EPA for a registered pesticide. Please see Section 15. REGULATORY INFORMATION for explanation.

2. HAZARDS IDENTIFICATION

PHYSICAL HAZARDS:

Not hazardous

HEALTH HAZARDS:

Eye Damage/Irritation Category 1
Acute toxicity, oral Category 4
Specific target organ toxicity – Repeated exposure Category 2

ENVIRONMENTAL HAZARDS:

Acute aquatic toxicity

Chronic aquatic toxicity

Category 2

Category 2

SIGNAL WORD:

DANGER

HAZARD STATEMENTS:

Causes serious eye damage. Harmful if swallowed. May cause damage to organs (liver, kidneys) through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.









PRECAUTIONARY STATEMENTS

Wear face shield, goggles or safety glasses with side protection. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Toxic to aquatic life with long lasting effects.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison control center or doctor for treatment advice.

IF SWALLOWED: Call a poison control center or doctor if you feel unwell. Rinse mouth. Dispose of contents and container in accordance with local and state regulations.

Avoid unintended release to the environment.

Collect spillage.

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENTCAS NO.% BY WEIGHTDimethylamine Salt of 2,4-Dichlorophenoxyacetic Acid2008-39-145.4 – 48.2Other IngredientsTrade SecretTrade Secret

Synonyms: 2,4-D DMA; 2,4-Dichlorophenoxyacetic acid, dimethylamine salt

Ingredients not precisely identified are proprietary or non-hazardous. Values are not products specifications.

4. FIRST AID MEASURES

If in Eyes: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If Swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Most Important symptoms/effects: Eye irritation

Indication of Immediate medical attention and special treatment if needed: There is no specific antidote if this product is ingested. Treat symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Recommended for large fires: foam or water spray. Recommended for small fires: dry chemical or carbon dioxide.

Special Fire Fighting Procedures: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full fire-fighting turn out gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.

Unusual Fire and Explosion Hazards: Containers will burst from internal pressure under extreme fire conditions. If water is used to fight fire or cool containers, dike to prevent runoff contamination of municipal sewers and waterways.

Hazardous Decomposition Materials (Under Fire Conditions): May produce gases such as hydrogen chloride and oxides of carbon and nitrogen.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.

Environmental Precautions: Prevent material from entering public sewer systems or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and placed in an appropriate container for disposal.

Methods for Containment: Dike spill using absorbent or impervious materials such as earth, sand or clay. Collect and contain contaminated absorbent and dike material for disposal.

Methods for Cleanup and Disposal: Pump any free liquid into an appropriate closed container. Collect washings for disposal. Decontaminate tools and equipment following cleanup. See Section 13: DISPOSAL CONSIDERATIONS for more information.

Other Information: Large spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

7. HANDLING AND STORAGE

HANDLING:

Avoid breathing vapors or spray mist. Do not get in eyes, on skin or on clothing. Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing/Personal Protective Equipment (PPE) immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. If pesticide gets on

SAFETY DATA SHEET

UAP Timberland Platoon®

skin, wash immediately with soap and water. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

STORAGE:

Store in original container in a dry, secured storage area. Keep container tightly closed when not in use. Store at temperatures above 32° F. If allowed to freeze, warm to at least 40° F and remix before using. Freezing does not alter the product. Do not contaminate water, food or feed by storage or disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:

Where engineering controls are indicated by specific use conditions or a potential for excessive exposure, use local exhaust ventilation at the point of generation.

Personal Protective Equipment:

Eye/Face Protection: To avoid contact with eyes, wear chemical goggles or face shield. An emergency eyewash or water supply should be readily accessible to the work area.

Skin Protection: To avoid contact with skin, wear long pants, long-sleeved shirt, shoes and socks, and chemical-resistant gloves. For use according to product label, chemical-resistant gloves are not required for applicators using ground boom equipment. Wear a chemical-resistant apron when mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate. An emergency shower or water supply should be readily accessible to the work area.

Respiratory Protection: Not normally required. If vapors or mists exceed acceptable levels, wear NIOSH approved air-purifying respirator with cartridges/canisters approved for use against pesticides.

General Hygiene Considerations: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material: 1) do not store, use and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored;

2) wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics or using the toilet.

Exposure Guidelines:

	08	SHA	AC	GIH	
Component	TWA	STEL	TWA	STEL	Unit
DMA Salt of 2,4-D	10*	NE	10*	NE	mg/m ³
Other Ingredients	N/A	N/A	N/A	N/A	

^{*}Based on adopted limit for 2,4-D

NE= Not Established N/A= Not Applicable

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, colorless to dark yellow liquid

Odor: Mild phenolic amine
Odor threshold: No data available

pH: 6.9-9

Melting point/freezing point:

Initial boiling point and boiling range

No data available

No data available

Flash point: Not applicable due to aqueous formulation

Evaporation rate:

Flammability (solid, gas):

Upper/lower flammability or explosive limits:

Vapor pressure:

Vapor density:

Not applicable

Not applicable

Not applicable

Relative density: 1.155 @ 20° C (9.64 lbs/gal) @21° C

Solubility(ies):

Partition coefficient: n-octanol/water:

Autoignition temperature:

Decomposition temperature:

Viscosity:

Soluble in water

No data available

No data available

10.5 cPs @ 21° C

VOC Emission Potential (%): 17.7

Note: Physical data are typical values, but may vary from sample to sample. A typical value should not be construed as a guaranteed analysis or as a specification.

10. STABILITY AND REACTIVITY

Reactivity: Not Reactive

Chemical Stability: This material is stable under normal handling and storage conditions.

Possibility of Hazardous Reactions: Will not occur.

Conditions to Avoid: Excessive heat. Do not store near heat or flame. **Incompatible Materials:** Strong oxidizing agents: bases and acids.

Hazardous Decomposition Products: Under fire conditions may produce gases such as hydrogen chloride and

oxides of carbon and nitrogen.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Eye contact, Skin contact

Symptoms of Exposure:

Eye Contact: Causes severe irritation. **Skin Contact:** Causes slight irritation.

Ingestion: Harmful if ingested. May cause nausea, vomiting, abdominal pain, decreased blood pressure, muscle

weakness, muscle spasms.

Inhalation: Low toxicity if inhaled. May cause upper respiratory tract irritation. **Delayed, immediate and chronic effects of exposure:** None reported.

Toxicological Data:

Except as noted, data from laboratory studies conducted on this product are summarized below:

Oral: Rat LD₅₀: 1,030 mg/kg (female) (estimated based on mortalities for doses tested)

Dermal: Rabbit LD₅₀: >5,000 mg/kg (data on similar product) **Inhalation:** Rat 4-hr LC₅₀: >2.06 mg/L (no animals died at this dose) **Eye Irritation:** Rabbit: Corrosive/severely irritating (data on similar product)

Skin Irritation: Rabbit: Slightly irritating (data on similar product)

Skin Sensitization: Guinea Pig: Not a contact sensitizer

Subchronic (Target Organ) Effects: Repeated overexposure to phenoxy herbicides may cause effects to liver, kidneys, blood chemistry, and gross motor function. Rare cases of peripheral nerve damage have been reported, but extensive animal studies have failed to substantiate these observations, even at high doses for prolonged periods.

Carcinogenicity / Chronic Health Effects: Various animal cancer tests have shown no reliably positive association between 2,4-D exposure and cancer. Epidemiology studies on herbicide use have been both positive and negative with the majority being negative.

Reproductive Toxicity: No impairment of reproductive function attributable to 2,4-D has been noted in laboratory animal studies.

Developmental Toxicity: Studies in laboratory animals with 2,4-D have shown decreased fetal body weights and delayed development in the offspring at doses toxic to mother animals.

Genotoxicity: There have been some positive and some negative studies, but the weight of evidence is that 2,4-D is not mutagenic.

Assessment Carcinogenicity:

This product contains substances that are considered to be probable or suspected human carcinogens as follows:

	Regulatory Agency Listing As Carcinogen				
Component	ACGIH	IARC	NTP	OSHA	
Chlorophenoxy Herbicides	No	2B	No	No	
Other Ingredients	No	No	No	No	

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Data on 2,4-D Dimethylamine Salt:

96-hour LC_{50} Bluegill: 524 mg/l Bobwhite Quail Oral LD_{50} : 500 mg/kg 96-hour LC_{50} Rainbow Trout: 250 mg/l Mallard Duck 8-day Dietary LC_{50} : >5,620 ppm

48-hour EC₅₀ Daphnia: 184 mg/l

SAFETY DATA SHEET

Environmental Fate:

In laboratory and field studies, 2,4-D DMA salt rapidly dissociated to parent acid in the environment. The typical half-life of the resultant 2,4-D acid ranged from a few days to a few weeks.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law and may contaminate ground water. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Handling and Disposal:

Nonrefillable Containers 5 Gallons or Less: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

Nonrefillable containers larger than 5 gallons: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable containers larger than 5 gallons: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

14. TRANSPORTATION INFORMATION

Follow the precautions indicated in Section 7: HANDLING AND STORAGE of this SDS.

DOT:

<25 gallons per completed package

Non Regulated

≥ 25 gallons per completed package

UN 3082, Environmentally hazardous substance, liquid, n.o.s. (2,4-D Salt), 9, III, RQ

IMDG:

Non Regulated

IATA:

Non Regulated

15. REGULATORY INFORMATION

EPA FIFRA INFORMATION

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the

UAP Timberland Platoon®

SAFETY DATA SHEET

classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

DANGER. Corrosive. Causes irreversible eye damage. Harmful if swallowed. Avoid breathing vapors or spray mist. Do not get in eyes, on skin, or on clothing.

U.S. FEDERAL REGULATIONS

TSCA Inventory: This product is exempted from TSCA because it is solely for FIFRA regulated use.

SARA Hazard Notification/Reporting:

Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370.66):

Immediate and Delayed

Section 313 Toxic Chemical(s):

None Listed

Reportable Quantity (RQ) under U.S. CERCLA:

Acetic Acid, (2,4-Dichlorophenoxy)- (CAS No. 94-75-7) 100 pounds

RCRA Waste Code:

Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

State Information:

Other state regulations may apply. Check individual state requirements.

California Proposition 65: Not Listed.

16. OTHER INFORMATION

National Fire Protection Association (NFPA) Hazard Rating:

Rating for this product: Health: 3 Flammability: 1 Reactivity: 0

Hazards Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-ACCEPTED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. It is a violation of Federal law to use a pesticide product in any manner not prescribed on the EPA-accepted label.

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, Nufarm Americas Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will Nufarm Americas Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS AND ALL SUCH WARRANTIES ARE HEREBY SPECIFICALLY DISCLAIMED.

Date of Issue: June 21, 2016 Supersedes: May 14, 2015



DEPOSITION AID DRIFT CONTROL AGENT

Principal Functioning Agents:	
Polyvinyl polymer (polyacrylamide)	30%
Constituents Ineffective as spray adjuvants	70%
TOTAL	100%
CA Reg. No. 34704-50048	

KEEP OUT OF REACH OF **CHILDREN**



Precautionary Statements: Causes eye irritation. Causes skin irritation. May be harmful if swallowed. Wash hands thoroughly after handling. Wear protective gloves and eye/face protection. May be harmful if inhaled. Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not contaminate water. Do not allow to enter drains, sewers, or watercourses.





PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS Personal Protective Equipment: Wear protective gloves and eye/face protection.

First Aid: II on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice. If In Eyes: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Bemove contact lenses. If present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment across. If Swallowed: Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. If inhaled; Move person to resh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT, CALL 1-866-944-8565.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment REIGN® LC is an effective, easy-to-use adjuvant for deposition improvement and drift etardation in spraying operations. REIGN LC is compatible with most water soluble and wettable powder pesticides, desiccants and cotton defoliants when applied by denial application or standard ground equipment.

_	REIGN LC Directions for Use - Suggested Use Aates	
Pressure		Ground/Aerial
Dolous OO		rate / 100 gallons
Below 20 psi		1 to 2 ounces
Below 40 psi		1.5 to 3 ounces
Above 40 psi		

Turi, Ornamental and Industrial Spraying: Use approximately 1 tables poor of REIGN LC per 5 gallons of spray solution

ner, or manufacture and industrial surgification and surgification conditions and vegetation near the sprayed area. Consult your local agricultural advisor. Remember, pesticide drift is no accident. Common sense and sound application technology must be followed when spraying pesticides. REIGN LC will retard, but not totally eliminate, drift.

To avoid product degradation and equipment corrosion and product degradation and equipment. This material reacts slowly with iron, copper and aluminum resulting in corrosion and product degradation. Do not store near oxidizing agents.

Environmental Hazards: Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

THIS PRODUCT CAN BE USED IN THE FOLLOWING SETTINGS: AGRICULTURAL, AQUATIC, FORESTRY, INDUSTRIAL, MUNICIPAL, NON-CROPLAND, ORNAMENTAL, RIGHTS OF-WAY AND TURE.

STORAGE AND DISPOSAL

STORAGE: Store in cool, dry place. Store in original container. Keep container tightly closed. Do not reuse empty container. DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Dispose of contents/container on-site or at an approved waste disposal facility. Triple rinse (or equivalent) adding these water to spray-tank-Offer container for recycling or dispose of container in sanitary landfill, or by other procedures approved by appropriate authorities. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the qualibral vecycling program. To contact your state and local ACRC recycler visit the ACRC web page at www.acrecycle.org. For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC 1-800-424-9300.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

BEFORE BUYING OR USING THIS PRODUCT, read the Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying of using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary. LOVELAND PRODUCTS, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, when the product is used in accordance with such Directions for Use under normal conditions of use. LOVELAND PRODUCTS, INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE BUYER'S OR USER'S EXCLUSIVE REMEDY FOR ANY INJURY, LOSS, OR DAMAGE RESULTING FROM THE HANDLING OR USE OF THIS PRODUCT SHALL BE LIMITED TO ONE OF THE FOLLOWING, AT THE ELECTION OF LOVELAND PRODUCTS, INC. OR THE SELLER: DIRECT DAMAGES NOT EXCEEDING THE PURCHASE PRICE OF THE PRODUCT OR REPLACEMENT OF THE PRODUCT. LOVELAND PRODUCTS, INC. AND THE SELLER SHALL NOT BE LIABLE TO THE BUYER OR USER OF THIS PRODUCT FOR ANY CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES, OR DAMAGES IN THE NATURE OF A PENALTY.





SAFETY DATA SHEET

SDS REVISIONS: SEC. 2

DATE OF ISSUE: 04/21/15

REIGN® LC SUPERSEDES: 09/08/14

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 PRODUCT IDENTIFIER:

SDS NUMBER: 1000013537-15-LPI

TRADE NAME:

REIGN® LC

1.2 RECOMMENDED USE:

DEPOSITION AND DRIFT CONTROL AGENT

1.3 SUPPLIER DETAILS:

LOVELAND PRODUCTS, INC.

P.O. Box 1286 • Greeley, CO 80632-1286

1.4 24 Hour Emergency Phone: 1-800-424-9300 - Medical Emergencies: 1-866-944-8565 - Product Information: 1-888-574-2878 (LPI-CUST)

U.S. Coast Guard National Response Center: 1-800-424-8802

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to 29 CFR 1910.1200

Eye Damage/Irritation Skin Damage/Irritation

Category 2B Category 2 H320 H315

2.2 Label elements



Signal word:

WARNING

Hazard Statements:

H320 - Causes eye irritation

H315 – Causes skin irritation. H303 – May be harmful if swallowed

H333 – May be harmful if inhaled.

Precautionary

Statement:

P264 - Wash hands, face, and other affected areas thoroughly after handling.

P280 – Wear protective gloves/protective clothing/eye protection face protection.

(Prevention): Precautionary Statement:

/Deepersolv

(Response): P302+P352 – IF ON SKIN: Wash with plenty of water for 15 to 20 minutes.

P332+P313 – If skin irritation occurs: Get medical advice/attention P321 – Specific treatment (see First Aid information on the product label).

P362+P364 – Take off contaminated clothing and wash before reuse

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and

easy to do. Continue rinsing.

P337 + P313 - If eyes irritation persists: Get medical advice/attention

Precautionary Statement:

(General):

P101 + P102 + P103 - If medical advice is needed, have product container or label available. Keep out of reach of

children. Read label before use

2.3 Other hazards

None known

Potential environmental effects This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have harmful or damaging effect on the environment.

SAFETY DATA SHEET

SDS NUMBER: 1000013537-15-LPI SDS REVISIONS: SEC. 2 **DATE OF ISSUE: 04/21/15**

REIGN® LC **SUPERSEDES: 09/08/14**

COMPOSITION, INFORMATION ON INGREDIENTS

3.1 Substances

3.2 Mixtures

Classification according to 29 CFR 1910.1200

Proprietary blend of Polyacrylamide in water-in oil emulsion

CAS No.

Concentration

Mixture

[%] 100.00

FIRST AID MEASURES

Chemical Name:

4.1 Description of First Aid Measures

General Advice:

Get medical attention if symptoms occur.

Eye contact:

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5

minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin contact:

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or

doctor for treatment advice.

Ingestion:

Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to

swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth

to an unconscious person.

Inhalation:

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable by

mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

4.2 Most Important Symptoms and Effects, Acute and Delayed

Symptoms: May be harmful if swallowed.

4.3 Immediate Medical Attention and Special Treatment

Treatment:

Treat symptomatically. Symptoms may be delayed.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565 Take container, label or product name with you when seeking medical attention.

Probable mucosal damage may contraindicate the use of gastric lavage. No specific antidote. Treatment of exposure NOTES TO PHYSICIAN: should be directed at the control of symptoms and the clinical condition of the patient.

FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:

Suitable Extinguishing Media: 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Water spray, dry chemical, foam, or carbon dioxide (CO₂).

Specific Hazards During Firefighting: During a fire, hazardous by-products can be released.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Special Protective Equipment for Firefighters: Self-contained breathing apparatus and full protective gear should be worn in fighting large fires involving chemicals. Use water spray to keep fire exposed containers cool. Keep people away. Isolate

fire and deny unnecessary entry.

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ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Personal Precautions:

Avoid inhalation of vapors and spray mist and contact with skin and eyes. Ensure adequate ventilation.

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Wear suitable protective clothing.

6.2 ENVIRONMENTAL PRECAUTIONS

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Do not allow to enter

drains, sewers, or watercourses.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP

Methods for Clean-Up:

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. After removal flush

contaminated area thoroughly with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to Remove residual contamination.

Never return spills to original containers for re-use.

HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:

Advice on Safe Handling:

Avoid inhalation of mists, vapors / spray and contact with eyes, skin and clothing. Do not breathe mists or vapor. Wear personal protective equipment. Do not use in areas without adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling. Do not empty into drains. Handle and open container with care. Use care in handling/storage. Wash before eating, drinking and/or smoking.

7.2 CONDITIONS FOR SAFE STORAGE:

Requirements for Storage Areas and Containers:

Store in cool, dry place. Store in original container. Keep tightly closed. Do not reuse empty container. Product will become thicker at cold temperatures but effectiveness will not be affected. Warm product before use. Do not contaminate water, food or feed by storage or disposal.

EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS:

OCCUPATIONAL EXPOSURE LIMITS

U.S. Workplace Exposure Level (ACGIH) Guides

Components Type TWA

No listings

<u>Value</u>

Biological limit values

ACGIH Biological Exposure Indices

Components No listings

Value

Specimen

8.2 EXPOSURE CONTROLS:

Engineering Measures

Provide adequate general and local exhaust ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors and spray mists. Provide eyewash station and safety shower.

Individual Protection Measures:

Eye / Face Protection:

Goggles or shielded safety glasses are recommended.

Skin Protection:

Coveralls worn over long-sleeved shirt and long pants. Chemical-resistant gloves. Chemical-resistant footwear plus

Respiratory Protection:

In case of inadequate ventilation or risk of inhalation of mists or vapors, use suitable respiratory equipment such as MSHA/NIOSH TC-21C or NIOSH approved respirator with N, R, P or HE filter. Wear respiratory protection during operations where spraying or misting occurs. If respirators are used, a program should be in place to assure compliance with 29 CFR 1910.134, the OSHA Respiratory Protection standard. Wear air supplied respiratory protection if exposure concentrations are unknown.

SAFETY DATA SHEET

SDS NUMBER: 1000013537-15-LPI SDS REVISIONS: SEC. 2 **DATE OF ISSUE: 04/21/15**

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PHYSICAL AND CHEMICAL PROPERTIES

9.1 APPEARANCE:

Liquid emulsion Sulfur dioxide.

ODOR: ODOR THRESHOLD:

No data available.

COLOR:

White.

pH:

4 - 6 (aqueous solution) MELTING POINT / FREEZING POINT: No data available

BOILING POINT:

>200°F (>93.3°C)

FLASH POINT:

>200°F (>93.3°C) / TCC FLAMMABILILITY (solid, gas): No data available.

UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: No data available.

VAPOR PRESSURE:

No data available.

SOLUBILITY:

Soluble

PERCENT VOLATILE (by volume): No data available

PARTITION CO-EFFICIENT, n-OCTANOL / WATER: No data available.

AUTO-IGNITION TEMPERATURE: No data available. DECOMPOSITION TEMPERATURE: No data available

VISCOSITY, kinematic (104°F): >20.5 mm²/sec

SPECIFIC GRAVITY (Water = 1): 1.000 g/ml

DENSITY:

8.34 lbs./gal / 1.00 kg/L

Note:

These physical data are typical values based on material tested but may vary from sample to sample.

Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

10.1 REACTIVITY

Stable

10.2 CHEMICAL STABILITY

Stable under normal temperature conditions

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No reactions known under normal use conditions. Will not polymerize.

10.4 CONDITIONS TO AVOID

Avoid strong oxidizing materials.

10.5 INCOMPATIBILE MATERIALS

Strong oxidizers.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Oxides of carbon, oxides of nitrogen, and ammonia.

11. TOXICOLOGICAL INFORMATION

11.1 LIKELY ROUTES OF EXPOSURE

Eye contact, Inhalation, Skin contact,

LC₅₀ (rat): No data available

LD₅₀ Oral (male rat): No data available LD₅₀ Dermal (rabbit): No data available Acute Toxicity Estimates: No data available Skin Irritation (rabbit): No data available. Eye Irritation (rabbit): No data available

Specific Target Organ Toxicity: Single exposure: No data available.

Aspiration: No data available

Skin Sensitization (guinea pig): Not a sensitizer

Carcinogenicity: No data available Germ Cell Mutagenicity: No data available

Interactive Effects: None known

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12. ECOLOGICAL INFORMATION

12.1 ECOTOXICITY

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. This product is not intended for use in aquatic settings.

Ecotoxicological Data

	Species	Test Results
Product (information from a similar product)		
96-hour LC ₅₀	Branchydanio rerio (zebra fish)	>100 mg/L
96-hour LC ₅₀	Oncorhynchus mykiss (rainbow trout)	>100 mg/L
48-hour EC ₅₀	Daphnia Magna	>100 mg/L
48-hour EC ₅₀	Ceridaphnia dubia	>100 mg/L

Drift or runoff may adversely affect non-target plants.

Do not apply directly to water.

Do not contaminate water when disposing of equipment wash water.

Do not apply when weather conditions favor drift from target area.

12.2 PERSISTENCE AND DEGRADABILITY

Biodegradability: No data available

12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulation: No data available.

12.4 MOBILITY IN SOIL

No data available.

12.5 OTHER ADVERSE EFFECTS

Assessment: No data available.

13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

P501 - Wastes may be disposed of on site or at an approved waste disposal facility. Triple rinse (or equivalent), adding rinse water to spray tank. Offer container for recycling or dispose of in a sanitary landfill or by other procedures approved by appropriate authorities. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at http://www.acrecycle.org/. Do not contaminate water, food or feed by storage or disposal.

14. TRANSPORT INFORMATION

14.1 LAND TRANSPORT

DOT Shipping Description: NOT REGULATED.

U.S. Surface Freight Classification: ADHESIVES, ADJUVANTS, SPREADERS OR STICKERS (NMFC 4610; CLASS 60)

15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS

HMIS NFPA & HMIS Hazard Ratings: **NFPA** Health 0 Least Health Flammability Slight 0 Flammability Instability 2 Moderate 0 Reactivity 3 PPE High

4 Severe

SARA Hazard Notification/Reporting
SARA Title III Hazard Category: Immediate Y Fire N Sudden Release of Pressure N
Delayed N Reactive N

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Reportable Quantity (RQ) under U.S. CERCLA: Acrylamide (CAS: 79-06-1) 5,000 lbs. (<0.05% in product)

SARA, Title III, Section 313: Acrylamide (CAS: 79-06-1)

RCRA Waste Code: U007 (Acrylamide)

CA Proposition 65: WARNING: This product contains chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.

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16. OTHER INFORMATION

SDS STATUS: Section 2 revised.

PREPARED BY: Registrations and Regulatory Affairs **REVIEWED BY:** Environmental Health and Safety

CA REG. NO.: 34704-50048

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Resolute 65WG

Herbicide

For preemergence control of grass and broadleaf weeds in:

- Established turfgrasses (excluding golf course putting greens), lawns and sod nurseries
- Container, field-grown and landscape ornamentals
- Conifer and hardwood seedling nurseries
- Established perennials and wildflower plantings
- Non-crop areas, including plantings on managed rights-of-way for transportation systems and utilities (including, roadways, roadsides, railways and equipment yards)
- Facilities including substations, tank farms, pumping stations, parking and storage areas, and ungrazed fence rows
- Christmas tree farms

Active Ingredient:

Prodiamine*:	65.0%
Other Ingredients:	35.0%
Total:	100.0%

^{*}CAS No. 29091-21-2

KEEP OUT OF REACH OF CHILDREN. CAUTION

See additional precautionary statements and directions for use inside booklet.

EPA Reg. No. 100-834 EPA Est. 62171-MS-001

SCP 834D-M2B 0909 4011673

5 pounds

Net Weight

FIRST AID		
If in eyes	 Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. 	
If on skin or clothing	 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. 	
In inhaled	 Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice. 	
If swallowed	 Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. 	
Have the produ going for treat	ct container or label with you when calling a poison control center or doctor, or ment.	
For 2	HOTLINE NUMBER 4-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident) Call 1-800-888-8372	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Harmful if inhaled or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

continued...

PRECAUTIONARY STATEMENTS (continued)

Personal Protective Equipment (PPE)

WPS USES:

Applicators and other handlers (other than mixers and loaders) who handle this pesticide for any use covered by the Worker Protection Standard (40 CFR Part 170) - in general, agricultural-plant uses are covered - must wear:

- · Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as butyl rubber >14 mils, or neoprene rubber >14 mils, or nitrile rubber >14 mils
- Shoes plus socks

Mixers and Loaders must wear:

- · Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as butyl rubber >14 mils, or neoprene rubber >14 mils, or nitrile rubber >14 mils
- · Shoes plus socks

NON-WPS USES:

Mixers and loaders who handle this pesticide for any use NOT covered by the Worker Protection Standard (40 CFR Part 170) - in general, only agricultural-plant uses are covered by the WPS - must wear:

Waterproof gloves

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Control Statements

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- After handling this product, immediately wash the outside of gloves before removing them, then remove gloves and all other PPE. Immediately wash thoroughly and change into clean clothing.

Environmental Hazards

This product has low solubility in water. At the limit of solubility, this product is not toxic to fish. However, at concentrations substantially above the level of water solubility, it may be toxic to fish. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Do not contaminate water when disposing of equipment wash water.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions, under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and (2) Buyer and User assume the risk of any such use. TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

To the extent permitted by applicable law, in no event shall SYNGENTA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitations of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

Exception: If the product is soil injected or soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves, such as butyl rubber >14 mils, or neoprene rubber >14 mils, or nitrile rubber >14 mils
- Shoes plus socks

GENERAL INFORMATION

WHERE TO USE

Resolute 65WG is a preemergence herbicide that provides residual control of many grass and broadleaf weeds in:

- Established turfgrasses (excluding golf course putting greens), lawns and sod nurseries
- Container, field-grown and landscape ornamentals
- · Conifer and hardwood seedling nurseries
- · Established perennials and wildflower plantings
- Non-crop areas, including plantings on managed rights-of-way for transportation systems and utilities (including, roadways, roadsides, railways and equipment yards)
- Facilities including substations, tank farms, pumping stations, parking and storage areas, and ungrazed fence rows
- Christmas tree farms

HOW RESOLUTE 65WG WORKS

Resolute 65WG controls susceptible weeds by preventing growth and development of newly germinated weed seeds. Weed control is most effective when Resolute 65WG is activated by at least 0.5 inch of rainfall or irrigation or shallow incorporation (1 to 2 inches) before weed seeds germinate and within 14 days following application.

USE PRECAUTIONS

- Do not graze or feed livestock forage cut from areas treated with Resolute 65WG.
- Do not apply Resolute 65WG to plants that will be consumed for food use.
- Follow all applicable directions, restrictions, and precautions on the labels of EPA-registered tank mix partners.
- Do not blend Resolute 65WG onto dry fertilizer or any other granular material.
- Chemigation: Do not apply this product through any type of irrigation system unless instructed otherwise in this label.
- Do not apply aerially.
- · Do not apply to golf course putting greens.

NEW PLANTINGS, REPLANTING AND ROTATIONAL PLANTINGS

Nursery, landscape, or non-crop land areas treated with Resolute 65WG should be rotated only to ornamental species listed on this label for 1 year following application unless the following test has shown species safety:

Before planting a species not listed on this label, it is recommended that several test strips of an indicator plant such as wheat, sorghum or corn be sown into the treated area. If the indicator plants germinate and grow normally to a height of 12 inches with normal root development, it is safe to plant.

In areas disturbed by new plantings or replanting of labeled species, it may be necessary to retreat exposed soil to maintain satisfactory weed control.

MIXING AND APPLICATION PROCEDURES

MIXING

Resolute 65WG must be mixed thoroughly in the spray tank to ensure uniform application. Follow these steps:

- 1. Fill the spray tank 1/4 full with clean water or fluid fertilizer only.
- 2. Start agitation and check to ensure it is working properly.
- 3. Add Resolute 65WG directly into the tank.
- 4. Add the rest of the carrier to obtain the final spray volume.
- 5. A spray colorant may be used with Resolute 65WG to mark areas as they are treated. This will improve application accuracy by minimizing swath skips and overlaps.
- 6. Maintain vigorous agitation in the spray tank before and during the application. This will ensure a well-mixed spray suspension.
- 7. Do not allow spray suspension to dry in the tank. Thoroughly clean the sprayer after use by flushing the system with water containing a detergent. Refer to **Pesticide Disposal** section of this label for waste disposal.

TANK MIXING RESOLUTE 65WG

Resolute 65WG may be tank mixed with certain other EPA-registered herbicides to provide a broader spectrum of weed control or to control emerged weeds. Refer to the specific directions for use for tank mix partners, and consult the label(s) of the individual tank mix partner(s) for use rate, application timing, weeds controlled, and specific precautions and/or restrictions. Tank mixes are permitted only in states where the tank mix partner(s) are registered for the application site and the turf and ornamental species listed. When using Resolute 65WG in a tank mixture with other pesticides, observe the most restrictive label limitations and precautions on the labels of the products used.

Before tank mixing with other pesticides not named on this label compatibility must be tested. See the **Compatibility Test** section.

COMPATIBILITY TEST

Before mixing Resolute 65WG with other pesticides in the spray tank, test the compatibility by mixing all components (carrier and pesticide products) in a small container in proportionate quantities. For example, a 1-qt. jar would be 1/100 the volume of a 25 gals./A spray rate. At 1 lb./A the Resolute 65WG rate would be proportional to 4.5 g per quart. Add approximately 1.5 teaspoons to a qt. of water. Calculate amounts for other products based on rate per acre. An approximate volume would be 1.5 teaspoons for each lb./A of a dry formulation and 0.5 teaspoons for each pt./A of a liquid formulation. (See following table).

Amount of Component to Add to One Quart Jar of Spray Carrier (Assuming Carrier Volume of 25 gals./A)

	Rate Per		
Component Formulations	Acre	1,000 Sq. Ft.	Level Teaspoons
Resolute 65WG	1.0 lb.	0.4 oz.	1.5
Dry Tank Mix Partners	1.0 lb.	0.4 oz.	1.5
Liquid Tank Mix Partners	1.0 pt.	0.4 oz.	0.5

If components do not ball-up or form flakes, sludge, gels, oily films or layers, then the mixture is compatible. Incompatibility will usually occur within 5 minutes after mixing. If the components are not compatible, a compatibility agent must be added to the tank mixture. Rerun the test to determine if the mixture is suitable after addition of the compatibility agent. If components are still not compatible, do not tank mix.

MIXING ORDER FOR TANK MIXTURES

Notes: 1) When mixing Resolute 65WG with other components (carrier and partner pesticide products), allow products to completely dissolve between steps. This is key when tank mixing with ester formulations. 2) Maintain agitation throughout mixing and application of the mixture.

Add the products to the spray tank in the following order:

- Add products packaged in water-soluble bags first. Agitate the tank mixture. Allow the water-soluble bags to completely dissolve and the product to disperse before adding any other tank mix partner.
- 2. Then add water-dispersible granules (WDG or WG formulations) and wettable powders (WP formulations). Add wettable powders to the tank as agitation continues. Allow the product to disperse completely before other products are added.
- 3. Add spray adjuvants and spray markers. Read the adjuvant's label first and use only those adjuvants approved for application to turf and ornamentals.
- Add flowable liquids (FL) or suspension concentrates (SC).
- 5. Add emulsifiable concentrates (EC) last.

APPLICATION

Apply Resolute 65WG in a minimum of 20 gals./A (0.5 gal/1,000 sq. ft.) of carrier (water and/or fluid fertilizer) using a calibrated, low-pressure sprayer with 50-mesh or coarser screens. A broadcast boom or handheld wand designed for herbicide or insecticide application will provide the best results. Select nozzle pressure and gallonage to provide complete coverage.

SPECIFIC USE DIRECTIONS

ESTABLISHED TURF

Resolute 65WG is a preemergence herbicide that, when properly applied, will control certain grass and broadleaf weeds listed on this label in established turfgrasses including:

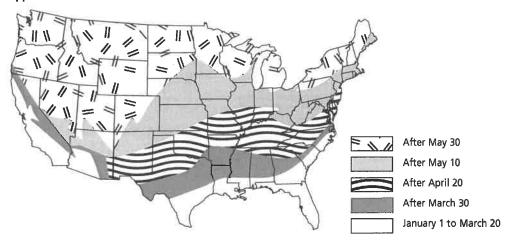
- Golf courses excluding putting greens
- Lawns
- Sod nurseries

The maximum amount of Resolute 65WG that may be applied per year is given for each turfgrass species in the **Annual Use Rates - Turfgrass** section of this label.

For optimum weed control, Resolute 65WG should be activated by at least 0.5 inch of rainfall or irrigation before weed seeds germinate and within 14 days following application. See the map below for approximate crabgrass seed germination dates.

Crabgrass Seed Germination Dates

Approximate Date



Use Precautions - Turfgrass

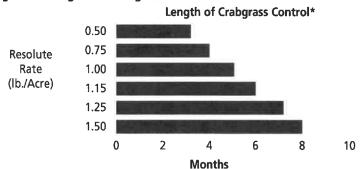
- Do not apply Resolute 65WG to areas where dichondra, colonial bentgrass, velvet bentgrass or annual bluegrass (Poa annua) are desirable species.
- Do not cut (harvest) treated sod within 90 days of application. To avoid turfgrass injury, do not apply to newly set sod until the sod has rooted and exposed edges have filled in.
- To avoid turfgrass injury, do not apply Resolute 65WG to turf stressed by conditions such as drought, low fertility, or pest damage.
- Disturbing the herbicide barrier with cultural practices such as disking may result in reduced weed control.
- Do not apply Resolute 65WG to golf course putting greens.
- If the depth of the creeping bentgrass root system becomes shallow and root tips contact
 Resolute 65WG-treated soil, new root formation may be inhibited. Mowing height can affect
 the depth of a plant's root system. To avoid this, do not apply Resolute 65WG to creeping bentgrass less than 0.5 inch in height.

Application Timing and Rate - Turfgrass

Resolute 65WG may be applied as a single application or in sequential applications to control weeds germinating throughout the year. All applications should be made before target weeds germinate. Resolute 65WG will not control weeds that have already emerged.

The amount of Resolute 65WG to apply is based upon: 1) the length of weed control desired (the higher the application rate, the longer the control; see Figure 1), 2) the turf species, and 3) the maximum amount which is applied to the turf species per calendar year (see Table 1).

Figure 1: Length of Crabgrass Control*



*Length of control varies by region. This figure is an average for planning purposes.

Annual Use Rates - Turfgrass

Resolute 65WG can be applied to the turfgrass species listed in the following table. Do not apply more than the highest rate listed for each species in a calendar year.

Table 1: Maximum Application Rate of Resolute 65WG per Calendar Year for Turfgrass Species¹

Turf Species	Lbs. product/A	Oz. product/ 1,000 sq. ft.	Area treated per water soluble packet (sq. ft.)
Bermudagrass ² Bahiagrass Centipedegrass Kikuyugrass Seashore Paspalum St. Augustinegrass ³ Tall Fescue (including turf-type) Zoysiagrass	1.0-2.31	0.36-0.83	22,000-9,600
Buffalograss Kentucky Bluegrass Perennial Ryegrass	0.5-1.50 ¹	0.185-0.55	44,000-14,700
Fine Fescue	0.5-1.15 ¹	0.185-0.42	44,000-19,100
Creeping Bentgrass (0.5 inches or more in height)4	0.5-1.001	0.185-0.37	44,000-22,000

¹Resolute 65WG may be applied more than once a year as long as the total amount applied is not greater than the maximum application rate per calendar year for the turf species. All applications must be made before weed seeds germinate.

²May be used on newly-sprigged or plugged Bermudagrass at rates not to exceed 0.80 lb./A (0.30 oz./1,000 sq. ft.). Newly-sprigged or plugged Bermudagrass stolon rooting may be temporarily retarded.

 $^{^3}$ Use an initial rate of 0.75-1.5 lbs./A (0.28-0.55 oz./1000 sq. ft.) per application.

⁴To avoid grass injury, do not apply Resolute 65WG to creeping bentgrass mowed at less than 0.5 inch in height.

Weeds Controlled (Turf, Ornamentals)

When used as directed in this label, Resolute 65WG will control the following weeds:

Barnyardgrass

Bluegrass, Annual (Poa annua)1

Carpetweed

Chickweed, Common²

Chickweed, Mouseear (from seed) Crabgrass (Large, Smooth)³

Crowfootarass Cupgrass, Woolly Foxtails, Annual Goosegrass⁵ Henbit²

Itchgrass Johnsongrass (from seed)

Junalerice

Knotweed²

Kochia

Lambsquarter, Common

Lovegrass

Panicum, (Texas, Fall, Browntop)

Piaweed

Purslane, Common Pusley, Florida Rescuegrass⁴ Shepherd's-Purse² Signalgrass, Broadleaf Speedwell, Persian Sprangletop

Spurge, Prostrate

Witchgrass

Woodsorrel, Yellow (from seed)

¹In areas where *Poa annua* is a winter annual, apply Resolute 65WG (see Table 1) in August or September to established, non-overseeded turf before Poa annua seeds germinate. These timings are approximate. Consult State Extension Service for more specific timing for your area. Also see the section of this label Poa Annua Control in Established Bermudagrass Overseeded with Perennial Ryegrass.

²To control this weed, apply Resolute 65WG in late summer, fall, or winter before weed seeds germinate.

³Fall Applications for Spring Crabgrass Control in Cool-Season Grasses: In those areas where the ground freezes in the winter, Resolute 65WG can be applied in the fall at rates of 1.0-1.15 lbs./A after the soil temperature falls below 50°F but before the ground freezes. This application will control crabgrass the following spring.

⁴Suppression only.

⁵In many areas, a single application of 1.0-2.3 lbs./A Resolute 65WG will control goosegrass. However, under heavy goosegrass pressure and/or an extended growing season, the most effective control may be maintained by making a "split application" (i.e., two applications) that does not exceed the maximum application rate per calendar year for the turfgrass species.

When to Apply Resolute 65WG After Overseeding Turf

Injury to desirable seedlings is likely if Resolute 65WG is applied before the secondary roots of seedlings are in the second inch of soil (not thatch plus soil). To reduce the potential to injure overseeded turf, wait 60 days after seeding or until after the second mowing, whichever is longer, before applying Resolute 65WG.

When to Overseed After Application - All States*

Resolute 65WG will inhibit the development of turfgrass species overseeded too soon after application. Follow rates and intervals in the table below for best overseeding/reseeding results.

*Note: See exceptions for *Poa annua* Control in Established Bermudagrass Overseeded with Perennial Ryegrass below.

Amount of Resolute 65WG	Interval (Months) Before Overseed		eeding*
Lbs. Product/A	North	Transition	South
0.75	4	4	4
1.00	5	4	4
1.15	6	5	5
1.25		6	6
1.50		7	7
1.75	26		9
2.00			10
2.30	***	***	12

Poa annua Control in Established Bermudagrass Overseeded with Perennial Ryegrass (Arizona, California, Nevada and Texas Only)

Use on golf courses (excluding golf course putting greens), lawns, and sod nurseries when over-seeding with perennial ryegrass (minimum seeding rate of 350 lbs./A).

How Much and When to Apply

Amount to Apply	When to Apply	Expected Control	Use Precautions
0.58-1.0 lb./A	6-8 weeks before ryegrass overseeding Second application: 4-8 weeks after overseeding or when perennial ryegrass roots are in the second inch of soil	1 application for 70% or greater control of <i>Poa annua</i> Second application may enhance control	 Some seedling mortality and temporary reduction in root growth of new seedlings may occur. To reduce the potential for seedling mortality maintain a moist seedbed with light, frequent irrigation. Make no more than two applications per year for this use, and do not exceed a total of 1.3 lbs./A per year. Do not make a second application if any injury to the ryegrass is observed after the first application. Do not make a second application unless the product was first applied before overseeding.

Control of *Poa annua* in Perennial Ryegrass Overseedings (Alabama, Louisiana, Georgia, Mississippi, North Carolina, South Carolina, and Tennessee Only)

Use this product on golf courses (excluding golf course putting greens) when overseeding with perennial ryegrass only (minimum seeding rate of 350 lbs./A).

How Much and When to Apply

Amount to Apply	When to Apply	Expected Control	Use Precautions
0.58-1.0 lb./A	8-10 weeks before ryegrass overseeding	70% or greater	Some seedling mortality and temporary reduction in root growth of new seedlings may occur. To reduce the potential for seedling mortality, maintain a moist seedbed with light, frequent irrigation. To maximize seedling establishment, use lower rate and/or the maximum time interval before overseeding. To maximize Poa annua control, use higher rate and shorter time interval before overseeding.

CONTAINER, FIELD-GROWN, AND LANDSCAPE ORNAMENTALS (INCLUDING CHRISTMAS TREE FARMS)

Application Timing and Information

Resolute 65WG:

- · Will not control emerged weeds.
- May be applied to newly-transplanted and established ornamentals as broadcast or over-thetop spray.
- Is most effective when applied to soil free of clods, weeds, and debris such as leaves and mulch.
- Is most effective when the product is activated in the soil before weed seeds germinate and within 14 days after application.
- Is activated when the treated area receives at least 0.5 inch of irrigation or rainfall, or shallow (1 to 2 inches) mechanical incorporation.

Use Precautions:

To reduce injury potential:

 In the spring when buds are rapidly growing and expanding, over-the-top application of Resolute 65WG may temporarily injure new growth of desirable plants. To reduce the possibility of injury at this time, wait to apply Resolute 65WG over the top of newly emerged vegetation until it has hardened off, unless your experience indicates that the ornamental plant will not be injured by the over-the-top application. After application (immediately for deciduous plants), apply overhead irrigation to wash Resolute 65WG from plant surfaces onto soil (watering plants before application may improve the washing process).

Application Sites and Instructions

Site	Application Instructions
Newly-transplanted Container or Field Nursery Stock	 Delay application until soil has settled around transplants. Water transplants thoroughly before application. Apply after cuttings form roots and are established. To avoid inhibition of the tissue union, apply before budding/grafting or after buds/grafts have taken.
Established Container, Field Nursery Stock, or Landscape Plants	Apply at any time as a broadcast, over-the-top, or directed spray.
Landscape (or Ornamental) Plantings	 Apply as a broadcast, over-the-top, or as a directed spray. Delay application to newly-transplanted ornamentals until soil has settled around transplants.
Bare Ground Application for Container Placement	 Apply to soil (including mulch, gravel, wood chips, or other permeable base) upon which containerized ornamentals are placed. After Resolute 65WG is applied, perform shallow cultivation or hand weeding only, to avoid disturbing the herbicide barrier.
In Shadehouses and Uncovered Polyhouses	After Resolute 65WG is applied, uncovered polyhouses must remain open for at least 7 days and ornamentals must receive two irrigations totaling at least 1/2 inch of water.
Ornamental Bulbs and Perennial Wildflower Plantings	Resolute 65WG may be applied to bulbs or perennial wild-flower species listed in the section, Tolerant Ornamental Species. Apply before or after bulbs emerge but before bulbs bloom and weeds emerge. In wildflowers, a postemergence herbicide labeled for wildflowers may be needed to control weeds that have already emerged.

How Much and When to Apply (Container, Field-Grown and Landscape Ornamentals)

Amount to Apply (Broadcast)*	When to Apply	Comments/Instructions
1.0-2.3 lbs./A or 0.37-0.83 oz./ 1,000 sq. ft.	In fall or spring before weeds germinate or after weeds are removed	 Use the higher rate for longer control Resolute 65WG may be applied more than once per year as long as the tota amount of product applied does not exceed 2.3 lbs./A per year.

^{*}Note: For band application calculate amount per acre:

Band width in inches

x broadcast rate = amount to apply per acre of field

Row width in inches

Equivalent Measurements for Resolute 65WG

Lbs./A	Oz./1,000 sq. ft.	Approximate Equivalent - Tablespoons/1,000 sq. ft.
1.0	0.37	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1.5	0.55	1.5
2.0	0.74	2
2.3	0.83	2.25

Tank Mixtures for Use On Container, Field-Grown, and Landscape Ornamentals

Resolute 65WG may be tank mixed with other registered herbicides listed on this label to provide a broader spectrum of weed control or to control emerged weeds. Tank mixes with Resolute 65WG are for use only in states where the tank mix partner(s), application site, and intended use pattern are registered.

Follow the label(s) of the tank mix partner(s) for application rates, timing, weeds controlled, tolerant ornamentals, and specific use precautions and/or restrictions. Before mixing pesticides in the spray tank, test compatibility by mixing the products in a small container first. See the **Compatibility Test** section of this label.

Tank Mix Partners for Resolute 65WG on Ornamentals

Product	Precautions/Instructions
Goal® (use on conifers only)	Mix with Resolute 65WG for postemergence control of certain broadleaf weeds including malva and filaree.
Gallery®, Princep®, Pennant®	See product labels for weed spectrum and tolerant ornamentals.
Touchdown® Pro (or other glyphosate-based products), Reward® and Finale®	 These non-selective tank mix herbicides control most emerged annual broadleaves and grasses. Take extreme care to prevent tank mixtures with these products from contacting the foliage and stems of turfgrass, trees, shrubs, or other desirable vegetation because desirable vegetation may be severely injured or killed. Apply these tank mixtures as a directed spray and use a shield to prevent spray from contacting foliage of desirable plants. Following instructions on the tank mix partner's label, delay irrigation of the treated area to allow time for the herbicide to be absorbed by weed foliage.

Tolerant Ornamental Species - Container, Field-Grown, and Landscape Ornamentals

Resolute 65WG will not harm most trees, shrubs, vines, and flowers. The species listed below in Table 2 are tolerant to Resolute 65WG. Resolute 65WG is approved for application, except in California, to the species in Table 3. Resolute 65WG may be applied over-the-top of the listed species.

When plants are under stress (such as heat, drought, or frost damage) some cultivars of listed plants may be sensitive to Resolute 65WG.

Table 2: Tolerant Ornamental Species - Container, Field-Grown, and Landscape Ornamentals - All States

Scientific name	Common name
Abies spp.	Fir species** (Balsam, Fraser, Noble, etc.)
Acer palmatum	Japanese Maple
Acer platanoides	Norway Maple***
Actinidia chinensis	Kiwi*
Agapanthus africanus	Lily-of-the-Nile (African Lily)
Arctostaphylos densiflora	Vine Hill Manzanita
Arctotheca calendula	Cape Weed
Aucuba japonica	Japanese Aucuba
Berberis gladwynensis	Barberry
Berberis julianae	Wintergreen Barberry

Table 2: Tolerant Ornamental Species - Container, Field-Grown, and Landscape Ornamentals - All States (continued)

Scientific name	Common name
Berberis mentorensis	Mentor Barberry
Berberis thunbergii	Japanese Barberry
Berberis verruculosa	Warty Barberry
Buxus microphylla	Japanese Boxwood
Callistemon viminalis	Weeping Bottlebrush
Calluna vulgaris	Scotch Heather
Carpobrotus edulis	Hottentot Fig (Ice Plant)
Cassia artemisioides	Feathery Cassia
Ceanothus rigidus	Wild Lilac
Chamaecyparis pisifera	False Cypress
Cleyera japonica	Cleyera
Citrus spp.	Citrus species*
Cornus florida	Flowering Dogwood
Cornus stolonifera	American Dogwood
Cortaderia selloana	Pampas Grass
Cotoneaster apiculatus	Cranberry Cotoneaster
Cotoneaster buxifolius	Cotoneaster
Cotoneaster dammeri	Bearberry Cotoneaster
Cotoneaster microphyllus	Rockspray Cotoneaster
Crataegus spp.	Hawthorne
Cupressus sempervirens	Italian Cypress
Delosperma alba	White Trailing Ice Plant
Dodonaea viscosa	Hop Bush
Elaeagnus pungens	Silverberry
Euonymus fortunei	Wintercreeper
Euonymus japonica	Japanese Spindle Tree (Evergreen Euonymus)
Euonymus kiautschovicks	Spreading Euonymus
Fatsia japonica	Japanese Aralia
Forsythia intermedia	Border Forsythia
Forsythia viridissima	Greenstem Forsythia

Scientific name	Common name
Gardenia jasminoides	Gardenia, Cape-Jasmine
Gladiolus spp.	Gladiolus species**
Hedera helix	English Ivy
Hibiscus	Rose of Sharon**
Hibiscus Rosa-sinensis	Chinese Hibiscus**
llex cornuta	Chinese Holly**
llex crenata	Japanese Holly
llex opaca	American Holly
llex pernyi	Holly
llex vomitoria	Yaupon Holly
Iris spp.	Iris species**
Jasminium nudiflorum	Winter Jasmine
Juniperus chinensis	Chinese Juniper
Juniperus conferta	Shore Juniper
Juniperus horizontalis	Creeping Juniper
Juglans spp.	Walnut*
Justicia brandegeana	Shrimp Plant
Lagerstromia indica	Crape Myrtle
Ligustrum amurense	Amur Privet
Ligustrum japonicum	Japanese Privet
Ligustrum lucidum	Glossy Privet (Wax-Leaf)
Lirope muscari	Big Blue Lillyturf
Lonicera japonica	Japanese Honeysuckle
Lonicera tatarica	Tatarian Honeysuckle
Magnolia spp.	Magnolia species**
Malephora luteola	Ice Plant
Malus spp.	Crabapple*
Nandina domestica	Heavenly Bamboo
Narcissus spp.	Narcissus species**
Nerium spp.	Oleander
Olea europaea	Olive*
Ophiopogon japonicus	Mondo Grass**

Table 2: Tolerant Ornamental Species - Container, Field-Grown, and Landscape Ornamentals - All States (continued)

Scientific name	Common name
Osteospermum fruticosum	Trailing African Daisy
Oxydendrum arboreum	Sourwood
Persea Americana	Avocado*
Photinia fraseri	Frasier's Photinia (Redtip)
Picea spp.	Spruce species*** (Colorado Blue, Norway, etc.)
Pieris japonica	Lily-of-the-Valley Shrub
Pinus brutia	Calabrian Pine
Pinus canariensis	Canary Island Pine
Pinus elliottii	Slash Pine
Pinus halepensis	Aleppo Pine
Pinus nigra	Austrian Black Pine
Pinus palustris	Longleaf Pine
Pinus radiata	Monterey Pine
Pinus strobus	Eastern White Pine
Pinus sylvestris	Scotch Pine
Pinus taeda	Loblolly Pine
Pinus thunbergiana	Japanese Black Pine
Pinus virginiana	Virginia Pine
Pistacia spp.	Pistachio*
Pittosporum rhombifolium	Queensland Pittosporum
Pittosporum tobira	Japanese Pittosporum
Podocarpus macrophyllus	Japanese Yew
Prunus laurocerasus	English Laurel
Prunus spp.	Almond, Apricot, Nectarine, Peach, Plum and Prune*
Pseudotsuga menziesii	Douglas Fir***
Pyracantha coccinea	Firethorn Scarlet
Pyracantha fortuneana	Firethorn
Pyracantha koidzumii	Firethorn
Pyrus spp.	Bradford Pear spp.
Quercus rubra	Oak species

Scientific name	Common name
Rhaphiolepis indica	Indian Hawthorne
Rhododendron (including Azalea)	'Coral Bells', 'Formosa', 'Hino-crimson', 'PJM' 'Roseum Elegans'
Rosa banksiae	Lady Bank's Rose
Rosmarinus officinalis	Rosemary*
Rumohra adiantiformis	Leatherleaf Fern
Santolina virens	
Sedum album	Stonecrop
Syzygium paniculatum	Japanese Boxcherry
Taxus cuspidate	Japanese Yew
Taxus media	Yew
Thuja occidentalis	American Arborvitae
Trachelospermum asiaticum	Star Jasmine
Tsuga canadensis	Canada Hemlock
Tulipa spp.	Tulip species
Viburnum japonicum	Japanese Viburnum
Viburnum odoratissimum	Sweet Viburnum
Viburnum plicatum	Japanese Snowball
Viburnum rigidum	Canary Island Viburnum
Viburnum tinus	Laurustinus
Viburnum trilobum	Cranberry Bush
Viburnum wrightii	Leatherleaf Viburnum
Vinca major	Vinca
Vinca minor	Dwarf Periwinkle
Vitis spp.	Grape*
Weigela florida	Old Fashioned Weigela
Yucca aloifolia	Spanish Bayonet
Yucca filamentosa	Yucca, Adam's Needle

^{*}Do not use on food-producing trees, vines, or plants.

**Not for use on container-grown plants.

***Landscape ornamentals only.

Table 3: Tolerant Ornamental Species/Varieties - Container, Field-Grown and Landscape Ornamentals - All States Except CA

Scientific Name	Common Name
Abelia grandiflora	Abelia: Sherwood
Achillea spp.	Yarrow: King Edward
Agapanthus orientalis	
Akebia quinata	Five-Leaf or Chocolate Vine
Allium cernuum	Lady's Leek, Nodding Onion
Anemone hybrida	Japanese Anemone
Aquilegia spp.	Aquilegia: Red and Gold
Artemisia spp.	Wormwood; Silver Mound, Castle
Aster spp.	Aster: Bonny Blue, Purple Dome
Aster X frikartii	
Athyrium filix-femina	Lady Fern; Fern Lady
Begonia spp.	Fibrous Begonia: Hardy Grandis
Bergenia cordifolia	
Boltonia asteroids	Snowbank
Bougainvillea spp.	Bougainvillea
Buddleia davidii	Butterfly-Bush (Dwarf Blue); Royal Red
Callistemon citrinus	Crimson Bottlebrush
Campanula carpatica	Tussock Bellflower; (White Clips)
Campis X tagliabuana	Trumpet Creeper, Trumpet Flower; Madame Galen
Ceratostigma plumbaginoides	
Chrysanthemum nipponicum	
Coreopsis spp.	Coreopsis (Calliopsis): Early Sunrise, Moonbeam
Crocosmia spp.	Lucifer
Delosperma spp.	Cooperi Pink
Delphinium spp.	Larkspur; Blue Elf
Dianthus deltoids	Dianthus, Maiden Pinks 'Zing'
Dianthus gratianopolitanus	Cheddar Pink
Echinacea pupurea	Coneflower, Purple; Magnus
Forsythia suspensa	Weeping Forsythia
Gaillardia spp.	Gaillardia, Blanket Flower: 'Goblin'

Scientific Name	Common Name
Gaura spp.	
Gentiana dahurica	Gentian
Geranium cinereum	Cranesbill
Gypsophila repens	Baby's Breath
Helianthemum spp.	Sunrose
Hemerocallis spp.	Daylily: Aztec Gold, Stella De Oro, Tender Love
Heucherella spp.	Coral Bell; Bridget Bloom
Hibiscus spp.	Mallow; Disco Belle White
Hosta plantaginea	Hosta, Plantain Lily (Fragrant)
Hosta sieboldiana	Hosta, 'Searsucker'
Houttuynia cordata var. variegata	
Hydrangea macrophylla	Bigleaf Hydrangea
Inula ensifolia	
Iris ensata	Sword-Leaved Iris; Jodlesong
Iris siberica	Siberian Iris; Cabernet
Juniperus davurica	Parsoni
Lagerstromia indica x fauriei	Crape Myrtle; Tuscarora
Lantana montevidensis	Weeping Lantana
Lavender spp.	Lavender; Munstead
Leontopodium alpinum	Edelweiss
Ligustrum sinense	Chinese Privet; Variegata
Lilium spp.	Lily: Jazz
Lirope muscari var. variegata	Lirope, Variegated
Lirope spicata	Lirope, Creeping
Lobelia cardinalis	Cardinal Flower, Indian Pink
Loropetalum chinense	Burgundy
Lythrum spp.	Loosestrife; Modern Pink
Miscanthus sinensis	Yaku Jima**, Silberfeder**
Oenothera missourensis	Evening Primrose
Osmanthus heterophyllus	Osmanthus (False Holly): Gulf Tide
Paeonia suffruticosa	Tree Peony
Pennisetum setaceum	Fountain Grass (Dwarf)**

Table 3: Tolerant Ornamental Species/Varieties - Container, Field-Grown and Landscape Ornamentals - All States Except CA (continued)

Scientific Name	Common Name
Perovskia atriplicifolia	
Physostegia virginiana	Dragonhead, False; Vivid
Quercus shumardii	Oak, Shumard's Red
Rhaphiolepis umbellata	Yedda Hawthorne
Rhododendron (including Azalea)	'Delaware Valley White', 'Flame Creeper', 'Girard Crimson', 'George L. Tabor', 'Wakeiebisu', 'White Gumpo'
Rudbeckia spp.	Black-Eyed Susan: Goldstrum
Saxifraga spp.	Saxifrage; Purple Dome
Scabiosa spp.	Pincushion Flower
Sedum cauticola	Stonecrop; Lidakense
Sedum dasyphyllum	Stonecrop
Sedum spurium	Stonecrop; Dragon's Blood
Spiraea bumalda	Spirea: Anthony Waterer
Syzyglum paniculatum	Australian Brushcherry
Teucrium spp.	Germander
Thalictrum dipterocarpum	Meadow Rue
Veronica spp.	Veronica, Speedwell; Sunny Border
Viburnum suspensum	Arrowood Viburnum

^{**}Not for use on container grown plants

VEGETATION MANAGEMENT

Resolute 65WG may be applied to soil surfaces for preemergence control of many grass and broadleaf weeds in:

- Non-crop areas, including ornamentals (does not include container or field grown ornamentals), and established perennial and wildflower plantings on or surrounding:
 - Managed rights-of-way for transportation systems and utilities including roadways, roadsides, railways, and equipment yards
 - Facilities including substations, tank farms, pumping stations, parking and storage areas, and ungrazed fence rows

Weeds Controlled - Vegetation Management

When used as directed in this label Resolute 65WG will control the following weeds:

Barnyardgrass

Bluegrass, Annual (Poa annua)1

Carpetweed

Chickweed, Common¹

Chickweed, Mouseear (from seed)

Crabgrass (Large, Smooth)³ Crowfootgrass Cupgrass, Woolly Foxtails, Annual Goosegrass³ Henbit¹

Itchgrass
Johnsongrass (from seed)

Junglerice

Knotweed¹

Kochia

Lambsquarters, Common

Lovegrass

Panicum, (Texas, Fall, Browntop)

Pigweed

Purslane, Common Pusley, Florida Rescuegrass² Shepherd's Purse¹ Signalgrass, Broadleaf Speedwell, Persian Sprangletop Spurge, Prostrate

Witchgrass

Woodsorrel, Yellow (from seed)

¹To control this weed, apply Resolute 65WG in late summer, fall, or winter before weed seeds germinate.

Application Timing and Information – Vegetation Management

Resolute 65WG:

- 1. Provides residual preemergence weed control.
- 2. Will not control emerged weeds.
- 3. May be applied to newly transplanted and established ornamentals as a broadcast or over-the-top spray.
- 4. Is most effective when the product is activated in the soil before weed seeds germinate and within 14 days after application.
- 5. Is activated when the treated area receives at least 0.5 inch of irrigation or rainfall or shallow (1-2 inches) mechanical incorporation.
- Is most effective when applied to soil free of clods, weeds, and debris such as leaves and mulch.

²Suppression only.

³Sequential applications may be made as long as the total amount of product applied does not exceed 2.3 lbs./A per year. To control weeds, all applications must be made before weed seeds germinate.

Use Precautions – Vegetation Management

To reduce injury potential:

- 1. Direct application of Resolute 65WG to rapidly growing tissue or buds may injure desirable plants. In the spring when buds are rapidly growing and expanding, over-the-top application of Resolute 65WG may temporarily injure new growth of desirable plants. To reduce the possibility of injury at this time, wait to apply Resolute 65WG over the top of newly emerged vegetation until it has hardened off unless your experience indicates that the ornamental plant will not be injured by the over-the-top application.
- After application (immediately for deciduous plants), apply overhead irrigation to wash Resolute 65WG from plant surfaces onto soil. Watering plants before application may improve the washing process.

How Much and When to Apply – Vegetation Management

Amount to Apply (Broadcast)	When to Apply	Comments/Instructions
1.0-2.3 lbs./A or 0.37-0.83 oz./ 1,000 sq. ft.	In fall and/or spring before weeds germinate or after weeds are removed.	 Use the higher rate for longer control. Resolute 65WG may be applied more than once per year as long as the total amount of product applied does not exceed 2.3 lbs./A per year.

^{*}Note: For band application calculate amount per acre:

Band width in inches broad

broadcast rate = amt. to apply/acre of field

Row width in inches

Equivalent Measurements for Resolute 65WG

lbs./A	oz./1,000 sq. ft	Approximate Equivalent Tablespoons/1,000 sq. ft.
1.0	0.37	TT PART I TO BE TO
1.5	0.55	11/2
2.0	0.74	2
2.3	0.83	21/4

Application Sites and Use Precautions – Vegetation Management

Site	Use Precautions
Ornamental Trees, Shrubs, Vines	 Apply as a broadcast, over-the-top, or as a directed spray. Delay applications to newly transplanted ornamentals until soil has settled around transplants.
Ornamental Bulbs and Perennial Wildflower Plantings	 May be applied to bulbs or perennial wildflower species listed in the section Tolerant Ornamental Species. Apply before or after bulbs emerge but before bulbs bloom and weeds emerge. In wildflowers a postemergence herbicide labeled for wildflowers may be needed to control weeds that have already emerged.

Tank Mixtures – Vegetation Management

Resolute 65WG may be tank mixed with other registered herbicides listed on this label to provide a broader spectrum of weed control or to control emerged weeds. Tank mixes with Resolute 65WG are for use only in states where the tank mix partner(s), application site and intended use pattern are registered.

Follow the label(s) of the tank mix partner(s) for application rates, timing, weeds controlled, tolerant ornamentals, and specific use precautions and/or restrictions. Before combining tank mix partners in the spray tank test compatibility by mixing the products in a small container. See the **Compatibility Test** section.

Tank Mixing and Application

Tank Mix Partners for Resolute 65WG – Vegetation Management

Product	Precautions/Instructions
Goal® (use on conifers only)	Mix with Resolute 65WG for postemergence control of certain broadleaf weeds including malva and filaree.
Gallery®, Princep®, Pennant®	See product labels for weed spectrum and tolerant ornamentals.
Touchdown [®] Pro (or other glyphosate-based products) Reward [®] and Finale [®]	 These non-selective tank mix herbicides control most emerged annual broadleaves and grasses. Take extreme care to prevent tank mixtures with these partner products from contacting the foliage and stems of turfgrass, trees, shrubs, or other desirable vegetation because desirable vegetation may be severely injured or killed. Apply these tank mixtures as a directed spray and use a shield to prevent spray from contacting foliage of desirable plants. Following instructions on the tank mix partner's label, delay irrigation of the treated area to allow time for the herbicide to be absorbed by weed foliage.

Tolerant Ornamental Species* - Vegetation Management

*Not for use on container or field grown ornamentals

Resolute 65WG will not harm most trees, shrubs, vines, and flowers. The species listed below in Table 4 are tolerant to Resolute 65WG. Resolute 65WG is approved for application, except in California, to the species in Table 5. Resolute 65WG may be applied over-the-top of the listed species.

When plants are under stress (such as heat, drought, or frost damage) some cultivars of listed plants may be sensitive to Resolute 65WG.

Table 4: - Tolerant Ornamental Species* - Vegetation Management - All States

Scientific name	Common name
Abies spp.	Fir species (Balsam, Fraser, Noble, etc.)
Acer palmatum	Japanese Maple
Acer platanoides	Norway Maple***
Actinidia chinensis	Kiwi**
Agapanthus africanus	Lily-of-the-Nile (African Lily)
Arctostaphylos densiflora	Vine Hill Manzanita
Arctotheca calendula	Cape Weed
Aucuba japonica	Japanese Aucuba
Berberis gladwynensis	Barberry
Berberis julianae	Wintergreen Barberry
Berberis mentorensis	Mentor Barberry
Berberis thunbergii	Japanese Barberry
Berberis verruculosa	Warty Barberry
Buxus microphylla	Japanese Boxwood
Callistemon viminalis	Weeping Bottlebrush
Calluna vulgaris	Scotch Heather
Carpobrotus edulis	Hottentot Fig (Ice Plant)
Cassia artemisioides	Feathery Cassia
Ceanothus rigidus	Wild Lilac
Chamaecyparis pisifera	False Cypress
Cleyera japonica	Cleyera
Citrus spp.	Citrus species**
Cornus florida	Flowering Dogwood
Cornus stolonifera	American Dogwood
Cortaderia selloana	Pampas Grass
Cotoneaster apiculatus	Cranberry Cotoneaster
Cotoneaster buxifolius	Cotoneaster

Scientific name	Common name
Cotoneaster dammeri	Bearberry Cotoneaster
Cotoneaster microphyllus	Rockspray Cotoneaster
Crataegus spp.	Hawthorne
Cupressus sempervirens	Italian Cypress
Delosperma alba	White Trailing Ice Plant
Dodonaea viscosa	Hop Bush
Elaeagnus pungens	Silverberry
Euonymus fortunei	Wintercreeper
Euonymus japonica	Japanese Spindle Tree (Evergreen Euonymus)
Euonymus kiautschovicks	Spreading Euonymus
Fatsia japonica	Japanese Aralia
Forsythia intermedia	Border Forsythia
Forsythia viridissima	Greenstem Forsythia
Gardenia jasminoides	Gardenia, Cape-Jasmine
Gladiolus spp.	Gladiolus species
Hedera helix	English Ivy
Hibiscus	Rose of Sharon
Hibiscus Rosa-sinensis	Chinese Hibiscus
llex cornuta	Chinese Holly
Ilex crenata	Japanese Holly
llex opaca	American Holly
Ilex pernyi	Holly
llex vomitoria	Yaupon Holly
Iris spp.	Iris species
Jasminium nudiflorum	Winter Jasmine
Juniperus chinensis	Chinese Juniper
Juniperus conferta	Shore Juniper
Juniperus horizontalis	Creeping Juniper
Juglans spp.	Walnut**
Justicia brandegeana	Shrimp Plant
Lagerstromia indica	Crape Myrtle
Ligustrum amurense	Amur Privet
Ligustrum japonicum	Japanese Privet
Ligustrum lucidum	Glossy Privet (Wax-Leaf)
Lirope muscari	Big Blue Lillyturf
Lonicera japonica	Japanese Honeysuckle

Table 4: - Tolerant Ornamental Species* - Vegetation Management - All States (continued)

Scientific name	Common name
Lonicera tatarica	Tatarian Honeysuckle
Magnolia spp.	Magnolia species
Malephora luteola	Ice Plant
Malus spp.	Crabapple**
Nandina domestica	Heavenly Bamboo
Narcissus spp.	Narcissus species
Nerium spp.	Oleander
Olea europaea	Olive**
Ophiopogon japonicus	Mondo Grass
Osteospermum fruticosum	Trailing African Daisy
Oxydendrum arboreum	Sourwood
Persea americana	Avocado**
Photinia fraseri	Frasier's Photinia (Redtip)
Picea spp.	Spruce species*** (Colorado Blue, Norway, etc.)
Pieris japonica	Lily-of-the-Valley Shrub
Pinus brutia	Calabrian Pine
Pinus canariensis	Canary Island Pine
Pinus elliottii	Slash Pine
Pinus halepensis	Aleppo Pine
Pinus nigra	Austrian Black Pine
Pinus palustris	Longleaf Pine
Pinus radiata	Monterey Pine
Pinus strobus	Eastern White Pine
Pinus sylvestris	Scotch Pine
Pinus taeda	Loblolly Pine
Pinus thunbergiana	Japanese Black Pine
Pinus virginiana	Virginia Pine
Pistacia spp.	Pistachio**
Pittosporum rhombifolium	Queensland Pittosporum
Pittosporum tobira	Japanese Pittosporum
Podocarpus macrophyllus	Japanese Yew
Prunus laurocerasus	English Laurel
Prunus spp.	Almond, Apricot, Nectarine, Peach, Plum and Prune**
Pseudotsuga menziesii	Douglas Fir***

Scientific name	Common name		
Pyracantha coccinea	Firethorn Scarlet		
Pyracantha fortuneana	Firethorn		
Pyracantha koidzumii	Firethorn		
Pyrus spp.	Bradford Pear spp.		
Quercus rubra	Oak species		
Rhaphiolepis indica	Indian Hawthorne		
Rhododendron (including Azalea)	'Coral Bells', 'Formosa', 'Hino-crimson', 'PJM', 'Roseum Elegans'		
Rosa banksiae	Lady Bank's Rose		
Rosmarinus officinalis	Rosemary**		
Rumohra adiantiformis	Leatherleaf Fern		
Santolina virens			
Sedum album	Stonecrop		
Syzygium paniculatum	Japanese Boxcherry		
Taxus cuspidata	Japanese Yew		
Taxus media	Yew		
Thuja occidentalis	American Arborvitae		
Trachelospermum asiaticum	Star Jasmine		
Tsuga canadensis	Canada Hemlock		
Tulipa spp.	Tulip species		
Viburnum japonicum	Japanese Viburnum		
Viburnum odoratissimum	Sweet Viburnum		
Viburnum plicatum	Japanese Snowball		
Viburnum rigidum	Canary Island Viburnum		
Viburnum tinus	Laurustinus		
Viburnum trilobum	Cranberry Bush		
Viburnum wrightii	Leatherleaf Viburnum		
Vinca major	Vinca		
Vinca minor	Dwarf Periwinkle		
Vitis spp.	Grape**		
Weigela florida	Old Fashioned Weigela		
Yucca aloifolia	Spanish Bayonet		
Yucca filamentosa	Yucca, Adam's Needle		

^{*}Not for use on container or field grown ornamentals.

**Do not use on food producing trees, vines, or plants.

***Landscape ornamentals only.

Table 5: - Tolerant Ornamental Species* - Vegetation Management - All States Except CA

Scientific name	Common name		
Abelia grandiflora	Abelia: Sherwood		
Achillea spp.	Yarrow: King Edward		
Agapanthus orientalis			
Akebia quinata	Five-Leaf or Chocolate Vine		
Allium cernuum	Lady's Leek, Nodding Onion		
Anemone hybrida	Japanese Anemone		
Aquilegia spp.	Aquilegia: Red and Gold		
Artemisia spp.	Wormwood; Silver Mound, Castle		
Aster spp.	Aster: Bonny Blue, Purple Dome		
Aster X frikartii			
Athyrium filix-femina	Lady Fern; Fern Lady		
Begonia spp.	Fibrous Begonia: Hardy Grandis		
Bergenia cordifolia			
Boltonia asteroides	Snowbank		
Bougainvillea spp.	Bougainvillea		
Buddleia davidii	Butterfly-Bush (Dwarf Blue); Royal Red		
Callistemon citrinus	Crimson Bottlebrush		
Campanula carpatica	Tussock Bellflower; (White Clips)		
Campis X tagliabuana	Trumpet Creeper, Trumpet Flower; Madame Galer		
Ceratostigma plumbaginoides			
Chrysanthemum nipponicum			
Coreopsis spp.	Coreopsis (Calliopsis): Early Sunrise, Moonbeam		
Crocosmia spp.	Lucifer		
Delosperma spp.	Cooperi Pink		
Delphinium spp.	Larkspur; Blue Elf		
Dianthus deltoides	Dianthus, Maiden Pinks 'Zing'		
Dianthus gratianopolitanus	Cheddar Pink		
Echinacea pupurea	Coneflower, Purple; Magnus		
Forsythia suspensa	Weeping Forsythia		
Gaillardia spp.	Gaillardia, Blanket Flower: 'Goblin'		
Gaura spp.			
Gentiana dahurica	Gentian		
Geranium cinereum	Cranesbill		

Scientific name	Common name
Gypsophila repens	Baby's Breath
Helianthemum spp	Sunrose
Hemerocallis spp.	Daylily: Aztec Gold, Stella De Oro, Tender Love
Heucherella spp.	Coral Bell; Bridget Bloom
Hibiscus spp.	Mallow; Disco Belle White
Hosta plantaginea	Hosta, Plantain Lily (Fragrant)
Hosta sieboldiana	Hosta, 'Searsucker'
Houttuynia cordata var.variegata	
Hydrangea macrophylla	Bigleaf Hydrangea
Inula ensifolia	
Iris ensata	Sword-Leaved Iris; Jodlesong
Iris siberica	Siberian Iris; Cabernet
Juniperus davurica	Parsoni
Lagerstromia indica x fauriei	Crape Myrtle; Tuscarora
Lantana montevidensis	Weeping Lantana
Lavender spp.	Lavender; Munstead
Leontopodium alpinum	Edelweiss
Ligustrum sinense	Chinese Privet; Variegata
Lilium spp.	Lily: Jazz
Lirope muscari var. variegata	Lirope, Variegated
Lirope spicata	Lirope, Creeping
Lobelia cardinalis	Cardinal Flower, Indian Pink
Loropetalum chinense	Burgundy
Lythrum spp.	Loosestrife; Modern Pink
Miscanthus sinensis	Yaku Jima, Silberfeder**
Oenothera missourensis	Evening Primrose
Osmanthus heterophyllus	Osmanthus (False Holly): Gulf Tide
Paeonia suffruticosa	Tree Peony
Pennisetum setaceum	Fountain Grass (Dwarf)**
Perovskia atriplicifolia	
Physostegia virginiana	Dragonhead, False; Vivid
Quercus shumardii	Oak, Shumard's Red
Rhaphiolepis umbellata	Yedda Hawthorne

Table 5: - Tolerant Ornamental Species* - Vegetation Management - All States Except CA (continued)

Scientific name	'Delaware Valley White', 'Flame Creeper', 'Girard Crimson', 'George L. Tabor', Wakeiebisu, White Gumpo		
Rhododendron (including azalea)			
Rudbeckia spp.	Black-Eyed Susan: Goldstrum		
Saxifraga spp.	Saxifrage; Purple Dome		
Scabiosa spp.	Pincushion Flower		
Sedum cauticola	Stonecrop; Lidakense		
Sedum dasyphyllum	Stonecrop		
Sedum spurium	Stonecrop; Dragon's Blood		
Spiraea bumalda	Spirea: Anthony Waterer		
Syzyglum paniculatum	Australian Brushcherry		
Teucrium spp.	Germander		
Thalictrum dipterocarpum	Meadow Rue		
Veronica spp.	Veronica, Speedwell; Sunny Border		
Viburnum suspensum	Arrowood Viburnum		

^{*}Not for use on container or field grown ornamentals.

CONIFER AND HARDWOOD SEEDLING NURSERIES (NON-ORNAMENTAL, FORESTRY USE ONLY) – VEGETATION MANAGEMENT

Resolute 65WG

- 1. Provides residual preemergence weed control in conifer and hardwood seedling nurseries.
- 2. Provides the most effective weed control when the product is activated in the soil by 0.5 inch of irrigation or rainfall before weed seeds germinate and within 14 days after application.
- 3. Should be applied to conifer and hardwood seedling nurseries any time after the soil has settled around newly-transplanted seedlings and liners.

^{**}Landscape ornamentals only.

	Application Rate			Marie Control	
Site	lbs./A	oz./1,000 sq. ft.	Timing	Comments/Instructions	
Conifer and Hardwood Seedling Nurseries	1.0-2.3	0.37-0.84	Apply in fall or spring before weed seeds germinate or after weeds are removed.	 Use higher rate for longer control. More than one application per year is permitted, but do not apply more than 2.3 lbs/A per year. 	
Southern Pine Seedbeds	0.75		Just after seeding and/or a minimum of 3 weeks after most seedlings have shed their seedcoat	 To assist in the establishment of Southern pine seedbeds, apply this product preemergence just after seeding pines. Application after emergence of pine seedlings should not occur until 3 weeks after most seedlings have shed their seedcoat. Mix this product with clean water and broadcast spray at 20 to 40 psi in a minimum of 20 gals. of water per treated area. After application, sprinkler irrigate beds with approximately 1/2 inch of water. 	
Hardwood Seedbeds: Oak (<i>Quercus</i> spp.), Sweetgum, Green Ash	0.75-1.5		When seedlings are at least 6 weeks old (from time of 50% germination)	 Use higher rate for longer control and when higher weed pressure is anticipated. The lower rate will provide 2 to 3 months of weed control. Broadcast to beds and apply approximately 1/2 inch of sprinkler irrigation afterwards. 	

Tank Mixtures – Conifer Seedling Nurseries – Vegetation Management

Resolute 65WG may be tank mixed with other registered herbicides listed on this label to provide a broader spectrum of weed control or to control emerged weeds. Tank mixes with Resolute 65WG are for use only in states where the tank mix partner, application site and intended use pattern are registered.

Follow the label of the tank mix partner for application rates, timing, weeds controlled, tolerant ornamentals, and specific use precautions and/or restrictions. Before combining the tank mix partner in the spray tank, test compatibility by mixing the products in a small container. See the **Compatibility Test** section.

Tank Mixing and Application – Vegetation Management Tank Mix Partner for Resolute 65WG – Conifer Seedling Nurseries

Product	Precautions/Instructions		
Goal (use on conifers only)	Mix with Resolute 65WG for postemergence control of certain broadleaf weeds including malva and filaree.		

VEGETATION MANAGEMENT (NON-CROP AREAS)

- May be applied to soil surfaces for preemergence control of many grass and broadleaf weeds
- Is most effective when activated by at least 0.5 inch rainfall or irrigation, or shallow incorporation before weed seeds germinate and within 14 days after application.

Site	Application Rate				
	lbs./A	oz./1,000 sq. ft.	Timing	Comments/Instructions	
Non Crop Areas, including ornamentals, on or surrounding managed rights- of-way for transportation systems and utilities (including roadways, roadsides, railways, and equipment yards) Facilities including substations, tank farms, pumping stations, parking and storage areas, and ungrazed fence rows	1.0-2.3	0.36-0.83	Before weed seeds germinate	Use higher rate for longer control. This product may be applied more than once per year but do not apply more than 2.3 lbs./A per year.	

Resolute 65WG may be tank mixed with other registered herbicides to provide a broader spectrum of weed control or to control emerged weeds or brush. Tank mixes with Resolute 65WG are for use only in states where the tank mix partner(s) are registered for the application site.

Tank Mix Partners with Resolute 65WG – Vegetation Management

Products	Comments		
Touchdown Pro (and glyphosate-based products¹), Gramoxone®, Reward, Predict®, Princep, Vanquish®, diuron-based products¹, Finale, Gallery, Garlon®, Goal, Krovar® I and II, Oust®, Arsenal®, Spike™, and Telar®	 Follow the label(s) of the tank mix partner(s) for application rates, timing, weeds controlled, tolerant ornamentals, and specific use precautions and/or restrictions. Do not mix Resolute 65WG with any product whose label prohibits mixing with another pesticide. 		

¹Products with this chemical as the active ingredient and which are labeled for the same use may be used.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage

Store in original container away from fertilizer, feed, or food stuffs.

Pesticide Disposal

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Handling

Paper bags and boxes: Non-refillable container. Do not reuse or refill this container. Completely empty container into application equipment. Then offer for recycling if available or dispose of empty bag or box in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Plastic jugs: Non-refillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or mix tank or store rinsate for later use and disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or dispose of container in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

For minor spills, leaks, or other accidental contamination, follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-888-8372, day or night.

Chemigation

Do not apply this product through any type of irrigation system.

Gramoxone®, Pennant®, Predict®, Princep®,
Resolute™, Touchdown®, and Vanquish®, the ALLIANCE FRAME
the SYNGENTA Logo and the PURPOSE ICON
are Trademarks of a Syngenta Group Company

Arsenal® trademark of BASF Ag Products

Finale® trademark of Bayer CropScience

Gallery®, Garlon®, Goal®, and Spike™ trademarks of Dow AgroSciences

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For non-emergency (e.g., current product information), call Syngenta Crop Protection at 1-800-334-9481.

Manufactured for: Syngenta Crop Protection, LLC P.O. Box 18300 Greensboro, North Carolina 27419-8300

SCP 834D-M2B 0909 4011673

BAR CODE # 15 (01) 0 07 02941 34443 LAST DIGIT IS CHECK DIGIT UCCEAN 128

Resolute[™] 65WG Herbicide

For preemergence control of grass and broadleaf weeds in:

- Established turfgrasses (excluding golf course putting greens), lawns and sod nurseries
- Container, field-grown and landscape ornamentals
- Conifer and hardwood seedling nurseries
- Established perennials and wildflower plantings
- Non-crop areas, including plantings on managed rights-of-way for transportation systems and utilities (including, roadways, roadsides, railways and equipment yards)
- Facilities including substations, tank farms, pumping stations, parking and storage areas, and ungrazed fence rows
- Christmas tree farms

Total: 100.0%

*CAS No. 29091-21-2

See directions for use in attached booklet.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

Resolute™ 65WG is a trademark of a Syngenta Group Company

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Manufactured for: Syngenta Crop Protection, LLC P.O. Box 18300 Greensboro, North Carolina 27419-8300

SCP 834D-M2B 0909 4011673

5 pounds

Net Weight

KEEP OUT OF REACH OF CHILDREN. **CAUTION**

FIRST AID

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

HOTLINE NUMBER: For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident) Call 1-800-888-8372.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Harmful if inhaled or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Environmental Hazards: This product has low solubility in water. At the limit of solubility, this product is not toxic to fish. However, at concentrations substantially above the level of water solubility, it may be toxic to fish. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Do not contaminate water when disposing of equipment wash water.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

Pesticide Storage: Store in original container away from fertilizer, feed, or food stuffs. Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Handling

Non-refillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining into application equipment or mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or mix tank or store rinsate for later use and disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or dispose of container in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

For minor spills, leaks, or other accidental contamination, follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-888-8372, day or night.

Chemigation

Do not apply this product through any type of irrigation system.

Safety Data Sheet



RESOLUTE 65WG HERBICIDE

Date:

7/23/2015

Replaces: 4/8/2015

1. PRODUCT IDENTIFICATION

Product identifier on label: RESOLUTE 65WG HERBICIDE

Product No.: A9950A Use: Herbicide

Manufacturer: Syngenta Crop Protection, LLC

Post Office Box 18300 Greensboro NC 27419

Manufacturer Phone: 1-800-334-9481

Emergency Phone: 1-800-888-8372

2. HAZARDS IDENTIFICATION

Classifications: Inhalation: Category 4

Skin Sensitizer: Category 1B

Specific Target Organ Toxicity: Repeated Category 2

Specific Target Organ Toxicity: Respiratory Irritation Category 3

Carcinogenicity: Category 1A

Signal Word (OSHA): Danger

Hazard Statements: May cause an allergic skin reaction

Harmful if inhaled

May cause respiratory irritation

May cause cancer

May cause damage to organs through prolonged or repeated exposure

Hazard Symbols:





Precautionary Statements: Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves, protective clothing, eye protection.

If on skin: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If exposed or concerned: Get medical advice/attention.

Safety Data Sheet



RESOLUTE 65WG HERBICIDE

Date:

7/23/2015

Replaces:

4/8/2015

Call a poison center, doctor or Syngenta if you feel unwell.

See Section 4 First Aid Measures.

Wash contaminated clothing before reuse.

Store locked up.

Dispose of contents and container in accordance with local regulations.

Other Hazard Statements:

May form combustible dust concentrations in air.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Common Name	CAS Number	Concentration
Crystalline Silica, Quartz and Cristobalite	Crystalline Silica, Quartz and Cristobalite	14808-60-7	Trade Secret
Kaolin Clay	Kaolin Clay	1332-58-7	Trade Secret
Other ingredients	Other ingredients	Trade Secret	<35.0%
N3, N3-Di-n-propyl-2,4-dinitro-6- (trifluoromethyl)-m-phenylenediamine	Prodiamine	29091-21-2	65.0%

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

4. FIRST AID MEASURES

Have the product container, label or Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison contol center or doctor, or going for treatment.

Ingestion:

If swallowed: Call Syngenta (800-888-8372), a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so after calling 800-888-8372 or by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Eye Contact:

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call Syngenta (800-888-8372), a poison control center or destar for treatment advices.

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doctor for treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20

Skin Contact: Inhalation:

minutes. Call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

...

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call Syngenta (800-888-8372), a poison control center or doctor for further treatment advice.

Most important symptoms/effects:

Allergic skin reaction

Respiratory irritation

Indication of immediate medical attention and special treatment needed:

There is no specific antidote if this product is ingested.

Treat symptomatically.

Persons suffering a temporary allergic reaction may respond to treatment with antihistamines or steroid creams and/or systemic steroids.

Safety Data Sheet



RESOLUTE 65WG HERBICIDE

Date:

7/23/2015

Replaces:

4/8/2015

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use dry chemical, foam or CO2 extinguishing media. If water is used to fight fire, dike and collect runoff.

Specific Hazards:

This material is considered explosion class (Kst) 2.

Fire will spread by burning with flame.

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

See also Sec. 7.

Special protective equipment and precautions for firefighters:

Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Sweep up material and place in a compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. HANDLING AND STORAGE

Precautions for safe handling:

This material is capable of forming flammable dust clouds in air, which, if ignited, can produce a dust cloud explosion. Flames, hot surfaces, mechanical sparks and electrostatic discharges can serve as ignition sources for this material. Electrical equipment should be compatible with the flammability characteristics of this material. The flammability characteristics will be made worse if the material contains traces of flammable solvents or is handled in the presence of flammable solvents.

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Conditions for safe storage, including any incompatibilities:

Store locked up.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Occupational Exposure Limits:

Crystalline Silica, Quartz and	10 mg/m³/(%SiO2+2)	0.025 mg/m ³	0.05 mg/m³	NIOSH
Chemical Name	OSHA PEL	ACGIH TLV	Other	Source



RESOLUTE 65WG HERBICIDE

Date:

7/23/2015

Replaces:

4/8/2015

Cristobalite

(respirable dust)

(respirable silica)

(respirable dust)

Kaolin Clay

15 mg/m³ TWA (total); 5

2 mg/m³ TWA

10 mg/m³ TWA

NIOSH

mg/m³ TWA (respirable)

(respirable)

(total); 5 mg/m³ TWA (respirable)

Other ingredients

Not Applicable

Not Applicable

Not Applicable

Not Applicable

Prodiamine

Not Established

Not Established

5 mg/m3 TWA

Syngenta

Appropriate engineering controls:

Use effective engineering controls to comply with occupational exposure limits (if applicable).

Individual protection measures:

Ingestion:

Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact:

Where eye contact is likely, use dust-proof chemical goggles.

Skin Contact:

Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride [PVC] or Viton), coveralls, socks and chemical-resistant footwear.

Inhalation:

A particulate filter respirator may be necessary until effective engineering controls are installed to comply with occupational exposure limits. Use NIOSH certified respirator with any N, R, P or HE filter. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow granules

Odor: Odorless

Odor Threshold: Not Available
pH: 8.0 - 9.5 (5% in deionized water)
Melting point/freezing point: Not Available

Initial boiling point and boiling range: Not Applicable Flash Point (Test Method): Not Applicable

Flammable Limits (% in Air):

Not Available

Flammability:

Combustible powder

Vapor Pressure: Prodiamine

<5.6 x 10(-6) mmHg @ 68°F (20°C)

Vapor Density: Not Available

Relative Density: Bulk density: 0.577 - 0.689 g/cm³; 38 - 45 lb/ft³ Solubility (ies): Prodiamine 0.013 ppm @ 77°F (25°C)

Partition coefficient: n-octanol/water: Not Available

Autoignition Temperature: Not Available

Decomposition Temperature: Not Available



RESOLUTE 65WG HERBICIDE

Date:

7/23/2015

Replaces:

4/8/2015

Viscosity: Not Available

Other: None

10. STABILITY AND REACTIVITY

Reactivity: Not reactive.

Chemical stability: Stable under normal use and storage conditions.

Possibility of hazardous reactions: Will not occur.

Conditions to Avoid: Thermal, mechanical and electrical ignition sources.

Incompatible materials: None known.

Hazardous Decomposition Products: None known.

11. TOXICOLOGICAL INFORMATION

Health effects information

Likely routes of exposure: Dermal, Inhalation

Symptoms of exposure: Respiratory irritation

Delayed, immediate and chronic effects of exposure: Possible carcinogenicity, Allergic skin reaction, Respiratory irritation

Numerical measures of toxicity (acute toxicity/irritation studies (finished product))

Ingestion:

Oral (LD50 Rat):

> 5000 mg/kg body weight

Dermal:

Dermal (LD50 Rat):

> 2000 mg/kg body weight

Inhalation:

Inhalation (LC50 Rat):

1.81 mg/l air - 4 hours

Eye Contact:

Mildly Irritating (Rabbit)

Skin Contact:

Practically Non-Irritating (Rabbit)

Skin Sensitization:

Sensitizing (Guinea Pig)

Reproductive/Developmental Effects

Prodiamine: Fetal toxicity at high dose levels (rats); developmental and maternal toxicity observed at 1g/kg/day. These were congenital anomalies occurring in test and control animals that are not considered to be treatment related.

Chronic/Subchronic Toxicity Studies

Prodiamine: Liver (alteration and enlargement) and thyroid effects (hormone imbalances) at high dose levels (rats); decreased body weight gains.

Carcinogenicity

Prodiamine: Possible human carcinogen based on limited animal evidence in the absence of human data. Information is insufficient for classification.



RESOLUTE 65WG HERBICIDE

Date:

7/23/2015

Replaces:

4/8/2015

Chemical Name

NTP/IARC/OSHA Carcinogen

Crystalline Silica, Quartz and Cristobalite

IARC 1; ACGIH A2

Kaolin Clay

No

Other ingredients

No

N3, N3-Di-n-propyl-2,4-dinitro-6-

No

(trifluoromethyl)-m-phenylenediamine

Other Toxicity Information

None

Toxicity of Other Components

Crystalline Silica, Quartz and Cristobalite

Chronic inhalation exposure to crystalline silica is known to cause silicosis and pulmonary fibrosis in humans. Experimental animals exposed to crystalline silica developed respiratory tract cancers.

Kaolin Clay

May cause eye and respiratory tract irritation.

Long-term exposure to high concentrations of this dust may produce x-ray evidence of dust in the lungs.

Continued long-term exposure may affect respiratory function in some individuals.

Other ingredients

Not Applicable

Target Organs

Active Ingredients

Prodiamine:

Liver, thyroid

Inert Ingredients

Crystalline Silica, Quartz and

Respiratory tract

Cristobalite:

Kaolin Clay:

Eye, respiratory tract, lung

Other ingredients:

Not Applicable

12. ECOLOGICAL INFORMATION

Eco-Acute Toxicity

Prodiamine:

Fish (Bluegill Sunfish) 96-hour LC50 > 552 ppb

Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 > 83 ppb

Bird (Bobwhite Quail) 14-day LD50 > 2250 mg/kg

Environmental Fate

Prodiamine:

The information presented here is for the active ingredient, prodiamine.

Does not bioaccumulate. Persistent in soil. Stable in water. Immobile in soil. Sinks in water (after 24 h).

13. DISPOSAL CONSIDERATIONS

Disposal:

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.



RESOLUTE 65WG HERBICIDE

Date: 7/23/2015 Replaces: 4/8/2015

Characteristic Waste: Not Applicable Listed Waste: Not Applicable

14. TRANSPORT INFORMATION

DOT Classification

Ground Transport - NAFTA

Not regulated

Comments

Water Transport - International

Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S. (Prodiamine), Marine Pollutant

Hazard Class: Class 9

Identification Number: UN 3077

Packing Group: PG III

Air Transport

Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S. (Prodiamine)

Hazard Class: Class 9

Identification Number: UN 3077

Packing Group: PG III

15. REGULATORY INFORMATION

Pesticide Registration:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Caution: Harmful if inhaled or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

EPA Registration Number(s):

100-834

EPCRA SARA Title III Classification:

Section 311/312 Hazard Classes: Acute Health Hazard

Chronic Health Hazard

Fire Hazard Reactive Hazard

Section 313 Toxic Chemicals: None

California Proposition 65:

This product contains trace amounts of chemicals known to the State of California to cause cancer as unintended impurities resulting from other entities' manufacturing or processing operations which Syngenta cannot control.

CERCLA/SARA 304 Reportable Quantity (RQ):

None

RCRA Hazardous Waste Classification (40 CFR 261):

Not Applicable

TSCA Status:



RESOLUTE 65WG HERBICIDE

Date:

7/23/2015

Replaces:

4/8/2015

Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

NFPA Hazard Ratings

HMIS Hazard Ratings

Minimal

Health:

2

Health:

1 Slight

2*

3

Flammability:

3

Flammability:

2 Moderate 3

Instability:

Serious

1 Reactivity:

Extreme Chronic

Syngenta Hazard Category: D,S

For non-emergency questions about this product call:

1-800-334-9481

Original Issued Date:

Revision Date:

10/21/2004

7/23/2015

Replaces:

4/8/2015

Section(s) Revised: 2, 4, 11

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the

information contained herein.

ATTENTION:

This specimen label is provided for general information only.

- . This pesticide product may not yet be available or approved for sale or use in your area.
- It is your responsibility to follow all Federal, state and local laws and regulations regarding the use of pesticides.
- · Before using any pesticide, be sure the intended use is approved in your state or locality.
- · Your state or locality may require additional precautions and instructions for use of this product that are not included here.
- Monsanto does not guarantee the completeness or accuracy of this specimen label. The information found in this label may differ from the information found on the
 product label. You must have the EPA approved labeling with you at the time of use and must read and follow all label directions.
- You should not base any use of a similar product on the precautions, instructions for use or other information you find here.
- · Always follow the precautions and instructions for use on the label of the pesticide you are using.





Complete Directions for Use

Roundup Custom™ for Aquatic and Terrestrial Use is a complete broad-spectrum posternergence herbicide for aquatic, crop, non-agricultural crop, industrial, turf, ornamental, forestry, roadside, and utility rights-of-way weed control.

EPA Reg. No. 524-343

2012-2

GROUP 9 HERBICIDE

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

Read the entire label before using this product.

Use only according to label instructions.

Not all products listed on this label are registered for use in California. Check the registration status of each product in California before using.

Read the "LIMIT OF WARRANTY AND LIABILITY" statement at the end of the label before buying or using. If terms are not acceptable, return at once unopened.

THIS IS AN END-USE PRODUCT. MONSANTO DOES NOT INTEND AND HAS NOT REGISTERED IT FOR REFORMULATION. SEE INDIVIDUAL CONTAINER LABEL FOR REPACKAGING LIMITATIONS.

PRODUCT INFORMATION

1.0 INGREDIENTS

ACTIVE INGREDIENT:

*Glyphosate, N-(phosphonomethyl)glycine,	
in the form of its isopropylamine salt	53.8%
OTHER INGREDIENTS:	46.2%
	100.09/

*Contains 648 grams per liter or 5.4 pounds per U.S. gallon of the active ingredient glyphosate, in the form of its isopropylamine salt. Equivalent to 480 grams per liter or 4.0 pounds per U.S. gallon of the acid, glyphosate.

No license granted under any non-U.S. patent(s).

2.0 IMPORTANT PHONE NUMBERS

FOR **PRODUCT INFORMATION** OR ASSISTANCE IN USING THIS PRODUCT, CALL TOLL-FREE, 1-800-332-3111.

IN CASE OF AN **EMERGENCY** INVOLVING THIS PRODUCT, OR FOR **MEDICAL ASSISTANCE**, CALL COLLECT, DAY OR NIGHT, (314)-694-4000.

3.0 PRECAUTIONARY STATEMENTS

3.1 Hazards to Humans and Domestic Animals

Keep Out of Reach of Children.

CAUTION!

DOMESTIC ANIMALS: This product is considered to be relatively nontoxic to dogs and other domestic animals; however, ingestion of this product or large amounts of freshly sprayed vegetation may result in temporary gastrointestinal irritation (vomiting, diarrhea, colic, etc.). If such symptoms are observed, provide the animal with plenty of fluids to prevent dehydration. Call a veterinarian if symptoms persist for more than 24 hours.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear: long-sleeved shirt and long pants, shoes plus socks. Follow manufacturer's instructions for cleaning/maintaining PPE (Personal Protective Equipment). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Control Statements: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations:

Users should:

- . Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- · Remove contaminated clothing and wash clothing before reuse.

3.2 Environmental Hazards

Do not contaminate water when cleaning equipment or disposing of equipment washwaters. Treatment of aquatic weeds can result in oxygen depletion or loss due to decomposition of dead plants. This oxygen loss can cause fish suffocation.

In case of SPILL or LEAK, soak up and remove to a landfill.

3.3 Physical or Chemical Hazards

Spray solutions of this product should be mixed, stored and applied using only stainless steel, fiberglass, plastic or plastic-lined steel containers.

DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. This product can only be used in accordance with the Directions for Use on this label or in separately published Monsanto Supplemental Labeling or Fact Sheets. Supplemental labeling can be found on the Internet at www.cdms.net, www.agrian.com or www.greenbook.net websites but may not be approved for use in all states. Copies can also be obtained by contacting your Authorized Monsanto Retailer or Monsanto Company Representative.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any

requirements specific to your State or Tribe, consult the agency responsible for pesticide regulations.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, are: coveralls, shoes plus socks, and chemical resistant gloves made of any waterproof material.

Non-Agricultural Use Requirements

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Keep people and pets off treated areas until spray solution has dried.

1.0 STORAGE AND DISPOSAL

Proper pesticide storage and disposal are essential to protect against exposure to people and the environment due to leaks and spills, excess product or waste, and vandalism. Do not allow this product to contaminate water, foodstuffs, feed or seed by storage and disposal.

PESTICIDE STORAGE: STORE ABOVE 5°F (-15°C) TO KEEP PRODUCT FROM CRYSTALLIZING. Crystals will settle to the bottom. If allowed to crystallize, place in a warm room 68°F (20°C) for several days to redissolve and roll or shake container or recirculate in mini-bulk containers to mix well before using. Store pesticides away from food, pet food, feed, seed, fertilizers, and veterinary supplies. Keep container closed to prevent spills and contamination.

PESTICIDE DISPOSAL: To avoid wastes, use all material in this container, including rinsate, by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal programs. Such programs are often run by state or local governments or by industry. All disposal must be in accordance with applicable federal, state and local regulations and procedures.

CONTAINER HANDLING AND DISPOSAL: See container label for container handling and disposal instructions and refilling limitations.

5.0 PRODUCT INFORMATION

Product Description: This product is a postemergent, systemic herbicide with no residual soil activity. It gives broad-spectrum control of many annual weeds, perennial weeds, woody brush and trees. It is formulated as a water-soluble liquid and may be applied through standard equipment after dilution and mixing with water or other carriers according to label instructions.

Time to Symptoms: This product moves through the plant from the point of foliage contact to and into the root system. Visible effects are a gradual wilting and yellowing of the plant which advances to complete browning of above-ground growth and deterioration of underground plant parts. Effects are visible on most annual weeds within 2 to 4 days, but on most perennial weeds may not occur for 7 days or more. Extremely cool or cloudy weather following treatment may slow activity of this product and delay development of visual symptoms.

Stage of Weeds: Annual weeds are easiest to control when they are small. Best control of most perennial weeds is obtained when treatment is made at late growth stages approaching maturity. See the WEEDS CONTROLLED section of this label for specific weed rates.

Always use the higher product application rate in the range when weed growth is heavy or dense, or when weeds are growing in an undisturbed (non-cultivated) area. Reduced weed control may result from treating weeds with disease or insect damage, weeds heavily covered with dust, or weeds under poor growing conditions.

Mode of Action in Plants: The active ingredient in this product inhibits production of an enzyme in plants and microorganisms that is essential to formation of specific amino acids.

Cultural Considerations: Reduced control could result when applications are made to annual or perennial weeds that have been mowed, grazed or cut, and have not been allowed to regrow to the specified stage for treatment.

Rainfastness: Heavy rainfall soon after application may wash this product off of the foliage and a repeat application may be required for adequate weed control.

Spray Coverage: For best results, spray coverage should be uniform and complete. Do not spray foliage to the point of run-off.

No Soil Activity: Weeds must be emerged at the time of application to be controlled by this product. Weeds germinating from seed after application will not be controlled. Unemerged plants arising from unattached underground rhizomes or rootstocks of perennials will not be affected by the herbicide and will continue to grow.

Maximum Application Rates: The maximum application or use rates stated throughout this label are given in units of volume (fluid ounces or quarts) of this product per acre. However, the maximum allowed application rates apply to this product combined with the use of any and all other herbicides containing the active ingredient glyphosate, whether applied separately or as tank mixtures, on a basis of total pounds of glyphosate (acid equivalents) per acre. If more than one glyphosate-containing product is applied to the same site within the same year, you must ensure that the total use of glyphosate (pounds acid equivalents) does not exceed the maximum allowed. The combined total of all treatments must not exceed 8 quarts of this product (8 pounds of glyphosate acid) per acre per year. See the INGREDIENTS section of this label for necessary product information.

ATTENTION

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS.

Do not allow the herbicide solution to mist, drip, drift or splash onto desirable vegetation since minute quantities of this product can cause severe damage or destruction to the crop, plants or other areas on which treatment was not intended. The likelihood of injury occurring from the use of this product increases when winds are gusty, as wind velocity increases, when wind direction is constantly changing or when there are other meteorological conditions that favor spray drift. When spraying, avoid combinations of pressure and nozzle type that will result in splatter or fine particles (mist) that are likely to drift. AVOID APPLYING AT EXCESSIVE SPEED OR PRESSURE.

NOTE: Use of this product in any manner not consistent with this label may result in injury to persons, animals or crops, or other unintended consequences.

5.1 Weed Resistance Management

GROUP 9 HERBICIDE

Glyphosate, the active ingredient in this product, is a Group 9 herbicide based on the mode of action classification system of the Weed Science Society of America. Any weed population may contain plants naturally resistant to Group 9 herbicides. Weed species resistant to Group 9 herbicides may be effectively managed utilizing another herbicide from a different Group or using other cultural or mechanical practices.

To minimize the occurrence of glyphosate-resistant biotypes observe the following general weed management recommendations:

- · Scout your application site before and after herbicide applications.
- Control weeds early when they are relatively small.
- Incorporate other herbicides and cultural or mechanical practices as part of your weed control system where appropriate.
- Use the labeled rate for the most difficult to control weed in the site. Avoid tank-mixtures with
 other herbicides that reduce this product's efficacy through antagonism or with tank mixtures that
 encourage rates of this product below those specified on this label.
- · Control weed escapes and prevent weeds from setting seeds.
- · Clean equipment before moving from site to site to minimize spread of weed seed.
- · Use new commercial seed as free of weed seed as possible.
- Report any incidence of repeated non-performance of this product on a particular weed to your Monsanto representative, local retailer, or county extension agent.

5.2 Management of Glyphosate Resistant Weed Biotypes

NOTE: Appropriate testing is critical in order to confirm weed resistance to glyphosate. Contact your Monsanto representative to determine if resistance has been confirmed to any particular weed biotype in your area. Directions for the control of biotypes confirmed to be resistant to glyphosate are made available on separately published supplemental labeling or Fact Sheets for this product and may be obtained from your local retailer or Monsanto representative.

Since the occurrence of new glyphosate resistant weeds cannot be determined until after product use and scientific confirmation, Monsanto Company is not responsible for any losses that may result from the failure of this product to control glyphosate-resistant weed biotypes.

The following good weed management practices are recommended to reduce the spread of confirmed glyphosate resistant biotypes:

 If a naturally occurring resistant biotype is present at your site, this product may be tank-mixed or applied sequentially with an appropriately labeled herbicide with a different mode of action to achieve control.

- · Cultural and mechanical control practices may also be used as appropriate.
- Scout treated sites after herbicide applications and control escapes of resistant biotypes before they set seed.
- · Thoroughly clean equipment before leaving sites known to contain resistant biotypes.

6.0 MIXING

Spray solutions of this product can be mixed, stored and applied using only clean stainless steel, fiberglass, plastic or plastic-lined steel containers.

DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS

Use caution to avoid siphoning back into the carrier source. Use approved anti-backsiphoning devices where required by state or local regulations.

Clean sprayer parts promptly after using this product by thoroughly flushing with water.

NOTE: REDUCED PRODUCT PERFORMANCE CAN OCCUR IF WATER CONTAINING SOIL SEDIMENT IS USED AS CARRIER OR WATER THAT IS VISIBLY MUDDY OR MURKY FROM PONDS AND DITCHES.

6.1 Mixing with Water

This product mixes readily with water. Mix spray solutions of this product as follows: Fill the mixing or spray tank with the required amount of clean water. Add the labeled amount of this product near the end of the filling process and mix gently (well). During mixing and application, foaming of the spray solution may occur. To prevent or minimize foam, avoid the use of mechanical agitators, terminate by-pass and return lines at the bottom of the tank and, if needed, use an approved anti-foam or defoaming agent.

6.2 Tank Mixtures

This product does not provide residual weed control. This product can be tank-mixed with other herbicides to provide residual weed control, a broader weed control spectrum or an alternate mode of action. Always read and follow label directions for all products in the tank mixture.

When this product is tank-mixed with other products, refer to these product labels for approved sites and application rates. Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used. Use according to the most restrictive precautionary statements for each product in the mixture. Any labeled rate of this product may be used in a tank mix.

When this label lists a tank mixture with a generic active ingredient such as diuron, 2,4-D or dicamba, the user is responsible for ensuring the mixture product label allows the specific application.

Buyer and all users are responsible for all loss or damage in connection with the use or handling of mixtures of this product with herbicides or other materials that are not expressly listed in this label. Mixing this product with herbicides or other materials not specified on this label may result in reduced performance.

This product provides control of the emerged weeds listed on this label. When applied as a tank mixture, the following herbicides will provide preemergence and/or postemergence control of the weeds listed in the individual product labels.

This product can be tank-mixed with the following products. Any labeled rate of this product can be used in a tank mixture with these products. User is responsible for ensuring that the specific product is registered for use on the target site. Refer to these product labels for approved application sites and application rates. Read and carefully observe the cautionary statements and all other information on the labels of all the herbicides used. Use according to the most restrictive precautionary statements for each product in the mixture.

Tank-mix Products

Arsenal	Krovar I DF $+ 2,4-D$
Banvel	Krovar I DF + Garlon 3A
2,4-D	Krovar I DF + Garlon 4
Garlon 3A	Oust XP
Garlon 4	Oust $XP + 2,4-D$
diuron	Oust XP + Garlon 3A
diuron + 2,4-D	Oust XP + Garlon 4
diuron + Garlon 3A	Ronstar
diuron + Garlon 4	Spike 80W
Hyvar X	Spike 80W + 2,4-D
Hyvar X + 2,4-D	Spike 80W + Garlon 3A
Hyvar X + Garlon 3A	Spike 80W + Garlon 4
Hyvar X + Garlon 4	Surflan
Krovar DF	

When used in combination as recommended by Monsanto Company, the liability of Monsanto shall in no manner extend to any damage, loss or injury not solely and directly caused by the inclusion of the Monsanto product in such combination use.

6.3 Tank Mixing Procedure

When tank mixing, read and carefully observe label directions, cautionary statements and all information on the labels of all products used. Add the tank-mix product to the tank as directed by the label. Maintain agitation and add the specified amount of this product.

Maintain good agitation at all times during the mixing process. Ensure that the tank-mix products are well mixed with the spray solution before adding this product.

Mix only the quantity of spray solution that can be used during the same day. Tank mixtures allowed to stand overnight may result in reduced weed control.

Maintain good agitation at all times until the contents of the tank are sprayed. If the spray mixture is allowed to settle, thorough agitation is required to resuspend the mixture before spraying is resumed.

Keep by-pass line on or near the bottom of the tank to minimize foaming. Screen size in nozzle or line strainers should be no finer than 50 mesh.

Always predetermine the compatibility of labeled tank mixtures of this product with water carrier by mixing small proportional quantities in advance. Ensure that the specific tank mixture product is registered for application at the desired site.

6.4 Mixing Percent Solutions

Prepare the desired volume of spray solution by mixing the amount of this product in water as shown in the following table:

Spray Solution

Desired	esired Amount of Roundup Custom for Aquatic and Terrestrial Use				trial Use	
Volume	0.5%	0.75%	1%	1.5%	4%	8%
1 gal	2/3 oz	1 oz	1.3 oz	2 oz	5 oz	10 oz
25 gal	1 pt	1.5 pt	1 qt	1.5 qt	4 qt	2 gal
100 gal	2 qt	3 qt	1 gal	1.5 gal	4 gal	8 gal
		2 tables	noons = 1	fluid nunce		

For use in backpack, knapsack or pump-up sprayers, it is suggested that the specified amount of this product be mixed with water in a larger container. Fill sprayer with the mixed solution.

6.5 Surfactant

This product requires the use of a nonionic surfactant unless otherwise specified. When using this product, unless otherwise specified, mix 2 or more quarts of a nonionic surfactant per 100 gallons of spray solution. Increasing the rate of surfactant may enhance performance. Examples of when to use the higher surfactant rate include, but are not limited to: hard to control woody brush, trees and vines, high water volumes, adverse environmental conditions, tough to control weeds, weeds under stress, surfactants with less than 70 percent active ingredient, tank mixes, etc.

Always read and follow the manufacturer's surfactant label for best results. Carefully observe all cautionary statements and other information appearing in the surfactant label.

6.6 Colorants or Dyes

Approved colorants or marking dyes may be added to this product. At lower rates or dilution, colorants or dyes used in spray solutions of this product may reduce performance. Use colorants or dyes according to the manufacturer's instructions.

6.7 Drift Reduction Additives

Drift reduction additives can be used with all equipment types, except wiper applicators and sponge bars. When a drift reduction additive is used, read and carefully observe precautionary statements and all other information appearing on the additive label. The use of drift reduction additives can affect spray coverage which may result in reduced performance.

7.0 APPLICATION EQUIPMENT AND TECHNIQUES

Do not apply this product through any type of irrigation system.

APPLY THESE SPRAY SOLUTIONS IN PROPERLY MAINTAINED AND CALIBRATED EQUIPMENT CAPABLE OF DELIVERING DESIRED VOLUMES.

SPRAY DRIFT MANAGEMENT

AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS.

Do not allow the herbicide solution to mist, drip, drift or splash onto desirable vegetation since minute quantities of this product can cause severe damage or destruction to the crop, plants or other areas on which treatment was not intended.

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determines the potential for spray drift. The applicator and/or the grower are responsible for considering all these factors when making decisions.

7.1 Aerial Equipment

DO NOT APPLY THIS PRODUCT USING AERIAL SPRAY EQUIPMENT EXCEPT UNDER CONDITIONS AS SPECIFIED WITHIN THIS LABEL.

FOR AERIAL APPLICATION IN CALIFORNIA, OR SPECIFIC COUNTIES THEREIN, REFER TO THE FEDERAL SUPPLEMENTAL LABELING FOR AERIAL APPLICATIONS OF THIS PRODUCT IN THAT STATE OR COUNTY FOR SPECIFIC INSTRUCTIONS, RESTRICTIONS AND REQUIREMENTS.

This product, tank-mixed with dicamba, may not be applied by air in California. Only 2,4-D amine formulations may be applied by air in California.

Use the labeled rates of this herbicide in 3 to 25 gallons of water per acre.

TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION, APPROPRIATE BUFFER ZONES MUST BE MAINTAINED.

Avoid direct application to any body of water. Drift control reduction additives may be used. When a drift control reduction additive is used, read and carefully observe the cautionary statements and all other information appearing on the additive label.

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

Aircraft Maintenance

PROLONGED EXPOSURE OF THIS PRODUCT TO UNCOATED STEEL SURFACES MAY RESULT IN CORROSION AND POSSIBLE FAILURE OF THE PART. The maintenance of an organic coating (paint) which meets aerospace specification MIL-C-38413 may prevent corrosion. To prevent corrosion of exposed parts, thoroughly wash aircraft after each day of spraying to remove residues of this product accumulated during spraying or from spills. Landing gear is most susceptible.

AERIAL SPRAY DRIFT MANAGEMENT

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications or to public health uses.

- The distance of the outermost nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
- Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees. Where states have more stringent regulations, they should be observed.

Importance of Droplet Size

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see the Wind, Temperature and Humidity, and Temperature Inversions sections of this label).

Controlling Droplet Size

Volume: Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with the higher rated flows produce larger droplets.

Pressure: Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

Number of nozzles: Use the minimum number of nozzles that provide uniform coverage.

Nozzle orientation: Orienting nozzles so that the spray is released backwards, parallel to the air stream, will produce larger droplets than other orientations. Significant deflection from the horizontal will reduce droplet size and increase drift potential.

Nozzle type: Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce larger droplets than other nozzle types.

Boom length: For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

Application height: Applications must not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces the exposure of the droplets to evaporation and wind.

Swath Adjustment

When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller droplets, etc.).

Wind

Drift potential is lowest between wind speeds of 2 to 10 miles per hour. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 miles per hour due to variable wind direction and high inversion potential. **NOTE:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect drift.

Temperature and Humidity

Set up equipment to produce larger droplets when making applications in low relative humidity to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions

Applications must not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Sensitive Areas

This product must only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

7.2 Ground Broadcast Equipment

For broadcast ground applications, unless otherwise specified in this label or in separate supplemental labeling or Fact Sheets published by Monsanto, use this product at the rate of 1.5 to 3 pints per acre for annual weeds, 3 to 7.5 pints per acre for perennial weeds and 3 to 7.5 pints per acre for woody brush and trees. When used according to label directions this product will give control or partial control of herbaceous weeds, woody brush and trees listed in the WEEDS CONTROLLED section of this label.

Use the labeled rates of this product in 3 to 40 gallons of water per acre as a broadcast spray unless otherwise specified in this label or in separate supplemental labeling or Fact Sheets published by Monsanto. As weed density increases, the spray volume should be increased toward the upper end of the specified range to ensure complete coverage. Carefully select proper nozzles to avoid spraying a fine mist. For best results with ground application equipment, use flat-fan nozzles. Check spray pattern for even distribution of spray droplets.

7.3 Hand-Held Equipment

Apply to foliage of vegetation to be controlled. For applications made on a spray-to-wet basis, spray coverage should be uniform and complete. Do not spray to the point of runoff. Use coarse sprays only.

For control of weeds listed in the **Annual Weeds** section of **WEEDS CONTROLLED**, apply a 0.5-percent solution of this product to weeds less than 6 inches in height or runner length. For annual weeds over 6 inches tall, or unless otherwise specified, use a 1-percent solution. Apply prior to seedhead formation in grass or bud formation in broadleaf weeds.

For best results, use a 1.5-percent solution on harder-to-control perennials, woody vines, brush and trees. Make applications to perennials after seedhead emergence in grasses or bud formation in broadleaf weeds, woody brush and trees for best results.

For low-volume directed spray applications, use a 4- to 8-percent solution of this product for control or partial control of annual weeds, perennial weeds, or woody brush and trees. Spray coverage should be uniform with at least 50 to 75 percent of the foliage contacted. Coverage of the top one half of the plant is important for best results. If a straight stream nozzle is used, start the application at the top of the targeted vegetation and spray from top to bottom in a lateral zig-zag motion. For flat-fan and cone nozzles and with hand-directed mist blowers, mist the application over the foliage of the targeted vegetation. To ensure adequate spray coverage, spray both sides of large or tall woody brush and trees, when foliage is thick and dense, or where there are multiple sprouts. For best results, apply to actively growing woody brush and trees after full leaf expansion and before fall color and leaf drop.

Unless otherwise specified, use the rates listed in the following table for various methods of foliar application using high-volume, backpack, knapsack and similar types of handheld equipment. When used according to label directions this product will give control or partial control of herbaceous weeds, woody brush and trees listed in the WEEDS CONTROLLED section of this label.

APPLICATION RATES

APPLICATION		SPRAY VOLUME Gallons/Acre
SPRAY-TO-WET Handgun or Backpack	0.5 to 1.5% by volume	spray-to-wet*
LOW-VOLUME DIRECTED	SPRAY	E STATE
Backpack	4 to 8% by volume	15 to 25**
Modified High-volume	1.5 to 3% by volume	40 to 60**

- * For applications made on a spray-to-wet basis, spray coverage should be uniform and complete. Do not spray to the point of runoff.
- **Low-volume directed applications with backpacks work best when treating weeds and brush less than 10 feet tall. For taller weeds and brush, high-volume handguns can be modified by reducing nozzle size and spray pressure to produce a low-volume directed spray.

7.4 Selective Equipment

This product can be applied through recirculating spray systems, shielded applicators, hooded sprayers, wiper applicators or sponge bars, after dilution and thorough mixing with water, to listed weeds growing in any aquatic or non-agricultural crop site specified on this label.

A recirculating spray system directs the spray solution onto weeds growing above desirable vegetation, while spray solution not intercepted by weeds is collected and returned to the spray tank for reuse.

AVOID CONTACT OF THIS HERBICIDE WITH DESIRABLE VEGETATION, AS SERIOUS INJURY OR DEATH TO DESIRABLE VEGETATION IS LIKELY TO OCCUR.

Applicators used above desired vegetation should be adjusted so that the lowest spray stream or wiper contact point is at least 2 inches above the desirable vegetation. Droplets, mist, foam or splatter of the herbicide solution settling on desirable vegetation is likely to result in discoloration, stunting or destruction.

Better results may be obtained when more of the weed is exposed to the herbicide solution. Weeds not contacted by the herbicide solution will not be affected. This may occur in dense clumps, severe infestations or when the height of the weeds varies so that not all weeds are contacted. In these instances, repeat treatment may be necessary.

Shielded and Hooded Applicators

A shielded or hooded applicator directs the herbicide solution onto weeds, while shielding desirable vegetation from the herbicide. Use nozzles that provide uniform coverage within the treated area. Keep shields on these sprayers adjusted to protect desirable vegetation. USE EXTREME CARE TO AVOID CONTACT OF HERBICIDE WITH DESIRABLE VEGETATION.

Wiper Applicators and Sponge Bars

Wiper applicators are devices that physically wipe this product directly onto the weed.

Equipment must be designed, maintained and operated to prevent the herbicide solution from contacting desirable vegetation. Operate this equipment at ground speeds no greater than 5 miles per hour. Performance may be improved by reducing speed in areas of heavy weed infestations to ensure adequate wiper saturation. Better results may be obtained if 2 applications are made in opposite directions.

Avoid leakage or dripping onto desirable vegetation. Adjust height of applicator to ensure adequate contact with weeds. Keep wiping surfaces clean. Be aware that, on sloping ground, the herbicide solution may migrate, causing dripping on the lower end and drying of the wicks on the upper end of a wiper applicator.

Do not use wiper equipment when weeds are wet.

Mix only the amount of solution to be used during a 1-day period, as reduced activity may result from the use of leftover solutions. Clean wiper parts immediately after using this product by thoroughly flushing with water.

Nonionic surfactant at a rate of 10 percent by volume of total herbicide solution is recommended with all wiper applications.

For Rope or Sponge Wick Applicators—Solutions ranging from 33 to 75 percent of this product in water may be used.

For Panel Applicators—Solutions ranging from 33 to 100 percent of this product in water may be used in panel wiper applicators.

7.5 Injection Systems

This product can be used in aerial or ground injection spray systems. It may be used as a liquid concentrate or diluted prior to injecting into the spray stream. Do not mix this product with the undiluted concentrate of other products when using injection systems unless specifically recommended.

7.6 CDA Equipment

The rate of this product applied per acre by controlled droplet application (CDA) equipment must not be less than the amount in this label when applied by conventional broadcast equipment. For vehicle-mounted CDA equipment, apply 2 to 15 gallons of water per acre.

For the control of annual weeds with hand-held CDA units — Apply a 15-percent solution of this product (19.25 oz of product per gallon) at a flow rate of 2 fluid ounces per minute and a walking speed of 1.5 miles per hour (1 quart per acre). For the control of perennial weeds, apply a 15- to 30-percent solution of this product at a flow rate of 2 fluid ounces per minute and a walking speed of 0.75 mile per hour (2 to 4 quarts per acre).

CDA equipment produces a spray pattern that is not easily visible. Extreme care must be exercised to avoid spray or drift contacting the foliage or any other tissue of desirable vegetation, as damage or destruction is likely to result.

8.0 SITE AND USE INSTRUCTIONS

This product can be used to control weeds, woody brush and trees in aquatic sites, nonagricultural crop sites and crop sites listed on this label.

Non-agricultural crop sites include airports, apartment complexes, commercial sites, ditch banks, dry ditches, dry canals, fence rows, forestry sites, golf courses, habitat restoration and management areas, industrial sites, lumber yards, manufacturing sites, municipal sites, natural areas, office complexes, public areas, parks, parking

areas, pastures, petroleum tank farms and pumping installations, railroads, rangeland, recreational areas, residential areas, roadsides, schools, storage areas, substations, utility rights-of-way, utility sites, warehouse areas, and wildlife management areas.

Crop sites include citrus, sugarcane, turf, sod and vegetable fallow.

Unless otherwise specified on this label or in separate supplemental labeling or Fact Sheets published by Monsanto, applications may be made to control any weeds listed in the Annual Weeds, Perennial Weeds and Woody Brush And Trees rate tables. Refer also to the Selective Equipment section.

8.1 Aquatic Sites

This product can be applied to emerged weeds in all bodies of fresh and brackish water which may be flowing, non-flowing or transient. This includes lakes, rivers, streams, ponds, estuaries, rice levees, seeps, irrigation and drainage ditches, canals, reservoirs, wastewater treatment facilities, wildlife habitat restoration and management areas.

If aquatic sites are present in the area and are part of the intended treatment, read and observe the following directions:

This product does not control plants which are completely submerged or have a majority of their foliage under water.

There is no restriction on the use of treated water for irrigation, recreation or domestic purposes.

Consult your local state fish and game agency and water control authorities before applying this product to public water. Permits may be required to treat such water.

NOTE: Do not apply this product **directly to water** within 0.5 mile upstream of an active potable water intake in flowing water (i.e., river, stream, etc.) or within 0.5 mile of an active potable water intake in a standing body of water such as lake, pond or reservoir. To make aquatic applications around and within 0.5 mile of active potable water intakes, the water intake must be turned off for a minimum period of 48 hours after the application. The water intake may be turned on prior to 48 hours if the glyphosate level in the intake water is below 0.7 parts per million as determined by laboratory analysis. These aquatic applications may be made ONLY in those cases where there are alternative water sources or holding ponds which would permit the turning off of an active potable water intake for a minimum period of 48 hours after the applications. This restriction does **NOT** apply to intermittent inadvertent overspray of water in terrestrial use sites.

For treatments after drawdown of water or in dry ditches, allow 7 or more days after treatment before reintroduction of water to achieve maximum weed control. Apply this product within 1 day after drawdown to ensure application to actively growing weeds.

Floating mats of vegetation may require retreatment. Avoid wash-off of sprayed foliage by spray boat or recreational boat backwash or by rainfall within 6 hours of application. Do not retreat within 24 hours following the initial treatment.

Applications made to moving bodies of water must be made while traveling upstream to prevent concentration of this herbicide in water. When making any bankside applications, do not overlap more than 1 foot into open water. Do not spray in bodies of water where weeds do not exist. The maximum application rate of 7.5 pints per acre must not be exceeded in any single broadcast application that is being made over water except as follows, where any labeled rate may be applied:

- · Stream crossings in utility rights-of-way.
- . Where applications will result in less than 20 percent of the total water area being treated.

When emerged infestations require treatment of the total surface area of impounded water, treating the area in strips may avoid oxygen depletion due to decaying vegetation. Oxygen depletion may result in fish kill.

For Control of Cordgrass (Spartina spp.)

The presence of debris and silt on the surface of cordgrass plants will reduce product performance. It may be necessary to wash targeted plants prior to application to improve herbicide uptake. Where cordgrass has been cut or mowed prior to application, allow significant regrowth before application to ensure adequate interception and uptake of the herbicide solution. Rainfall within 2 hours or immersion within 4 hours after application may reduce effectiveness.

Prior to application, survey the areas to be treated to determine if shellfish beds exist within the intended treatment area. Wait either until shellfish have been harvested before application is made or do not harvest shellfish for 14 days following treatment.

Add 1 to 2 quarts or more of nonionic surfactant or other adjuvant approved for use on aquatic sites and compatible with this product per 100 gallons of spray solution for broadcast applications (ground or air) and when using optical sensing application equipment.

Do not apply this product through any type of irrigation system.

APPLICATION

Under ideal application conditions, that is, where silt and debris are not present on plant surfaces, good spray coverage is achievable, target plants are actively growing and labeled rates and application volumes are used, allow at least 4 hours drying time before plants are covered by tidewater. Where one or more of these conditions are not met, schedule applications to allow at lest 5 hours drying time before plants are covered by tidewater. Do not apply when wind speed at the application site exceed 10 miles per hour.

Broadcast Application (Ground): Apply 2 to 8 quarts of this herbicide in 5 to 100 gallons of spray solution per acre. For best results, complete coverage of cordgrass clumps is required.

Broadcast Application (Ground/Optical Sensing Application Equipment): Apply 2 to 8 quarts of this product in 5 to 100 gallons of spray solution per acre using equipment designed and calibrated to deliver spray solution only when cordgrass plants are present and detected by optical sensors. For best results, complete coverage of cordgrass clumps is required.

Hand-Held Backpack or High-volume Equipment: Apply a 5 to 8 percent solution of this product. Ensure that complete coverage of cordgrass clumps is achieved. Do not spray to the point of runoff.

Broadcast Application (Air): Apply 2 to 8 quarts of this product in 5 to 10 gallons of spray solution per acre. Maintain at least a 50-foot buffer between commercial shellfish beds and treated areas. The potential for spray drift is dependent upon weather-and equipment-related factors. The applicator must be familiar with local wind patterns and monitor and record temperature and wind speed prior to and periodically during application. Schedule application in order to allow at least 5 hours before treated plants are covered by tidewater.

For Foliar and Broadcast Treatment of Japanese Knotweed

For control of Japanese knotweed (*Polygonum cuspidatum*), this product may be applied as a 2.0% v/v spray-to-wet solution with 0.5 to 2.0% v/v of a nonionic surfactant containing at least 70 percent active ingredient. Ensure thorough coverage when using spray-to-wet treatments using hand-held equipment.

For broadcast applications, apply 3 quarts of this product with an aquatic approved surfactant system containing 0.1% v/v nonionic organosilicone and 0.25% v/v nonionic spreader sticker surfactant in 3 to 40 gallons per acre as a broadcast treatment.

Allow at least 3 days after application before disturbing treated vegetation. This product does not control plants which are completely submerged or have a majority of their foliage under water.

For Foliar and Broadcast Treatment of Oriental Bittersweet

For control of Oriental bittersweet (*Celastrus orbiculatus*), this product may be applied as a 2.0% v/v spray-to-wet solution with 0.5 to 2.0% v/v of a nonionic surfactant containing at least 70 percent active ingredient. Ensure thorough coverage when using spray-to-wet treatments using hand-held equipment.

For broadcast application, apply 2.25 quarts of this product with an aquatic approved surfactant system containing 0.1% v/v nonionic organosilicone and 0.25% v/v nonionic spreader sticker surfactant in 3 to 40 gallons per acre as a broadcast treatment.

Allow at least 3 days after application before disturbing treated vegetation. This product does not control plants which are completely submerged or have a majority of their foliage under water.

Tank Mixtures

Tank mixtures of this product plus 2,4-D amine may be used to increase the spectrum of vegetation controlled in aquatic sites. Use 1.5 to 2 pints of this product plus 1 to 2 quarts of 2,4-D amine (4 pounds active ingredient per gallon, labeled for aquatic sites) for control of annual weeds. Use 3 to 7.5 pints of this product plus 2 to 4 quarts of 2,4-D amine (4 pounds active ingredient per gallon, labeled for aquatic sites) for control or partial control of perennial weeds, woody brush and trees.

When tank mixing, read and carefully observe the label claims, cautionary statements and all information on the labels of all products used. Use according to the most restrictive precautionary statements for each product in the mixture. Mix in the following sequence: Fill sprayer tank one-half full with water, add Roundup Custom for Aquatic and Terrestrial Use, then 2,4-D amine and finally surfactant. Fill sprayer tank to final volume of water.

NOTE: DO NOT MIX ROUNDUP CUSTOM FOR AQUATIC AND TERRESTRIAL USE AND 2,4-D AMINE CONCENTRATES WITHOUT WATER CARRIER. DO NOT MIX ROUNDUP CUSTOM FOR AQUATIC AND TERRESTRIAL USE AND 2,4-D AMINE IN BYPASS INJECTOR-TYPE SPRAY EQUIPMENT.

8.2 Cut Stump

Cut stump treatments may be made on any site listed on this label. This product will control many types of woody brush and tree species. Apply this product using suitable equipment to ensure coverage of the entire cambium. Cut trees or resprouts close to the soil surface. Apply a 50- to 100-percent solution of this product to the freshly-cut surface **immediately after** cutting. Delays in application may result in reduced performance. For best results, applications should be made during periods of active growth and full leaf expansion.

For control of *Ailanthus altissima* (Tree-of-heaven) make a cut stump treatment according to the directions in this section using a spray mixture of 50% Roundup Custom for Aquatic and Terrestrial Use and 10% Arsenal.

DO NOT MAKE CUT STUMP APPLICATIONS WHEN THE ROOTS OF DESIRABLE WOODY BRUSH OR TREES MAY BE GRAFTED TO THE ROOTS OF THE CUT STUMP. Some sprouts, stems, or trees may share the same root system. Adjacent trees having a similar age, height and spacing may signal shared roots. Whether grafted or shared, injury is likely to occur to non-treated stems/trees when one or more trees sharing common roots are

8.3 Conifer and Herbaceous Release Sites

This product can be used for conifer release as a broadcast spray for control, partial control or suppression of herbaceous weeds and hardwoods listed in the **WEEDS CONTROLLED** section of this label. Use only where conifers have been established for more than one year unless otherwise stated below. This product can be applied as a

directed spray or by using selective equipment in forestry hardwood and conifer sites, including Christmas tree plantations and silvicultural nurseries.

Use a nonionic surfactant that is labeled for use in over-the-top conifer release applications. Refer to the surfactant manufacturer's label for surfactant use rates and other precautionary statements. Use of this product without a surfactant will result in reduced herbicide performance.

APPLICATION MUST BE MADE AFTER FORMATION OF FINAL CONIFER RESTING BUDS IN THE FALL OR PRIOR TO INITIAL BUD SWELLING IN THE SPRING.

Injury may occur to conifers treated for release, especially where spray patterns overlap or the higher rates are applied. Damage can be accentuated if applications are made when conifers are actively growing, or are under stress from drought, flood water, improper planting, insects, animal damage or diseases.

For release of the following conifer species <u>outside</u> the Southeastern United States:

Douglas fir, Fir, Hemlock, Pines*, California Redwood, Spruce

*Includes all species except loblolly pine, longleaf pine, shortleaf pine or slash pine.

Use 1.5 to 3 pints of this product per acre as a broadcast spray.

To release Douglas fir, and pine and spruce species at the end of the first growing season (except in California), this product can be used at the lower labeled rates of 1.5 to 2.5 pints per acre. Ensure that the conifers are well hardened off before application. Make sure that the nonionic surfactant has been adequately tested for safety to Douglas fir before use.

For release of Spruce (*Picea spp.*) in Maine, Michigan, Minnesota, New Hampshire and Wisconsin, up to 4.5 pints per acre of this product may be used for the control of difficult woody brush and tree species and application must be made after formation of final conifer resting buds in the fall.

Use of a surfactant is not recommended for release of hemlock species or California redwood. In mix conifer stands injury to these species may result if a surfactant is used.

For release of the following conifer species in the Southeastern United States:

Loblolly pine, Slash pine, Eastern white pine, Virginia pine, Shortleaf pine, Longleaf nine

Apply 2.25 to 3.75 pints of this product per acre as a broadcast spray during late summer or early fall after the pines have hardened off.

For applications made at the end of the first growing season, use 1.5 pints per acre of this product.

TANK MIXTURES: This product can be tank-mixed with the following products for conifer or herbaceous release. When tank mixing, read and carefully observe the label claims, cautionary statements and all information on the labels of all products used. Use according to the most restrictive precautionary statements and label uses for each product in the mixture.

When applied as directed, this product plus listed residual herbicides provides postemergence control of the annual weeds and control or suppression of the perennial weeds listed in this label, and residual control of the weeds listed in the residual herbicide label. Use only on conifer species that are labeled for over-the top sprays for both products.

atrazine

Arsenal Applicator Concentrate

Oust XP

Late Summer and Fall after Resting Bud Formation

For release of jack pine, white pine and white spruce, apply 1.5 to 3 pints of this product plus 1 to 3 ounces of Oust XP per acre. For white pine tank mix a maximum of 1 to 1.5 ounces of Oust XP per acre.

For conifer release of Douglas fir, use 1.5 to 2.25 pints of this product plus 2 to 6 ounces of Arsenal Applicator Concentrate per acre. For conifer release of balsam fir and red spruce, apply 3 pints of this product plus 1 to 2.5 ounces of Arsenal Applicator Concentrate per acre.

Herbaceous Release

For spring and early summer herbaceous release of loblolly pine, Virginia and longleaf pine apply 12 to 18 fluid ounces of this product with 2 to 4 ounces of Oust XP.

For early spring release of Douglas fir, prior to bud swell, apply 1.5 pints of this product plus 4 pounds active ingredient of atrazine per acre. Allow one full growing season before application. Do not add surfactant to this treatment.

Q.4 Forestry Site Preparation

Use this product for the control or partial control of woody brush, trees and herbaceous weeds in forestry or for use in preparing or establishing wildlife openings within these sites and maintaining logging roads.

This product can also be used in site preparation prior to planting any tree species, including Christmas trees, eucalyptus, hybrid tree cultivars and silvicultural nursery sites.

For applications using different types of equipment, see APPLICATION RATES table in the HAND-HELD EQUIPMENT section of this label.

TANK MIXTURES: Tank mixtures of this product can be used to increase the spectrum of vegetation controlled in forestry site preparation. When tank mixing, read and carefully observe the label claims, cautionary statements and all information on the labels of all products used. Use according to the most restrictive precautionary statements for each product in the mixture.

NOTE: For forestry site preparation, make sure the tank-mix product is approved for use prior to planting the desired species. Observe planting interval restrictions.

Any labeled rate of this product can be used in a tank \min with the following products for forestry site preparation.

Arsenal Applicators Concentrate Garlon 3A Chopper GEN2 Garlon 4 Chopper GEN2 Oust XP

For control of herbaceous weeds, use the lower specified tank mixture rates. For control of dense stands or tough-to-control woody brush and trees, use the higher labeled rates.

Unless otherwise directed on this label or in separately published Monsanto supplemental labeling or Fact Sheet, do not apply this product as an over-the-top broadcast spray for forestry conifer or hardwood release.

Q.5 Non-Crop Areas and Industrial Sites

Use in areas including airports, apartment complexes, commercial sites, ditch banks, dry ditches, dry canals, fencerows, forestry sites, golf courses, industrial sites, lumber yards, manufacturing sites, office complexes, parks, parking areas, petroleum tank farms and pumping installations, railroads, recreational areas, residential areas, roadsides, sod or turf seed farms, schools, storage areas, substations, utility sties, warehouse areas, and wildlife management areas.

Weed Control, Trim-and-Edge and Bare Ground

This product can be used in non-agricultural crop areas. It can be applied with any application equipment described in this label. This product can be used to trim-and-edge around objects for spot treatment of unwanted vegetation and to eliminate unwanted weeds growing in established shrub beds or ornamental plantings. This product can be used prior to planting an area to ornamentals, flowers, turfgrass (sod or seed), or prior to laying asphalt or beginning construction projects.

Repeat applications of this product as weeds emerge to maintain bare ground.

TANK MIXTURES: This product can be tank-mixed with the following products.

Garlon 3A Ronstar 50WP Arsenal atrazine³ Garlon 4 simazine* Barricade 65WG Goal 2XL Surflan AS Krovar I DF Surflan WDG Certainty® Telar DF Crossbow L Landmark II Landmark II MP Transline dicamba⁵ diuron* Outrider® Velpar DF Oust XP Endurance Velnar L 2.4-D* Escort XP Plateau Gallery 75DF Poast

Do not apply dicamba tank mixtures by air in California. Only 2,4-D amine formulations can be applied by air in California.

Brush Control Tank Mixtures

TANK MIXTURES: Tank mixtures of this product can be used to increase the spectrum of control for herbaceous weeds, woody brush and trees. When tank mixing, read and carefully observe the label claims, cautionary statements and all information on the labels of all products used. Use according to the most restrictive precautionary statements for each product in the mixture. Any labeled rate of this product can be used in a tank mix.

For control of herbaceous weeds, use the lower tank mixture rates. For control of dense stands or tough-to-control woody brush and trees, use the higher labeled rates.

NOTE: For side trimming treatments, this product can be used alone or in tank mixture with Garlon 4.

Arsenal Garlon 3A Escort XP Garlon 4

Chemical mowing - Perennials

This product will suppress perennial grasses listed in this section to serve as a substitute for mowing. Use 6 fluid ounces of this product per acre when treating tall fescue, fine fescue, orchardgrass, quackgrass or reed canarygrass covers. Use 5 fluid ounces of this product per acre when treating Kentucky bluegrass. Apply treatments in 10 to 40 gallons of spray solution per acre. Apply after grasses have greened up to at least 75 percent green color in the spring, or 7 to 10 days after mowing when sufficient regrowth has occurred to provide a desirable height for growth regulation.

Use only in areas where some temporary injury or discoloration of perennial grasses can be tolerated.

Chemical mowing - Annuals

For growth suppression of some annual grasses, such as annual ryegrass, wild barley and wild oats growing in coarse turf on roadsides or other industrial areas, apply 3 to 4 fluid ounces of this product in 10 to 40 gallons of spray solution per acre. Applications

should be made when annual grasses are actively growing and before the seedheads are in the boot stage of development. Treatments may cause injury to the desired grasses.

Dormant Turfgrass

Use this product to control or suppress many winter annual weeds and tall fescue for effective release of dormant bermudagrass and bahiagrass turf. Treat only when turf is dormant and prior to spring greenup.

Apply 6 to 48 fluid ounces of this product per acre. Apply the labeled rates in 10 to 40 gallons of water per acre. Use only in areas where bermudagrass or bahiagrass are desirable ground covers and where some temporary injury or discoloration can be tolerated.

Treatments in excess of 12 fluid ounces per acre may result in injury or delayed greenup in highly maintained areas, such as golf courses and lawns. DO NOT apply tank mixtures of this product plus Oust XP or Outrider in highly maintained turfgrass areas. For further uses, refer to the ROADSIDES section of this label, which gives rates for dormant bermudagrass and bahiagrass treatments.

Actively Growing Bermudagrass

This product can be used to control or partially control many annual and perennial weeds for effective release of actively growing bermudagrass. DO NOT apply more than 12 fluid ounces of this product per acre in highly maintained turfgrass areas. DO NOT apply tank mixtures of this product plus Oust XP or Outrider in highly maintained turfgrass areas. For further uses, refer to the ROADSIDES section of this label, which gives rates for actively growing bermudagrass treatments. Use only in areas where some temporary injury or discoloration can be tolerated.

Turfgrass Renovation, Seed, or Sod Production

This product controls most existing vegetation prior to renovating turfgrass areas or establishing turfgrass grown for seed or sod. For maximum control of existing vegetation, delay planting or sodding to determine if any regrowth from escaped underground plant parts occurs. Where repeat treatments are necessary, sufficient regrowth must be attained prior to application. For warm-season grasses such as bermudagrass, summer or fall applications provide the best control. Where existing vegetation is growing under mowed turfgrass management, apply this product after omitting at least one regular mowing to allow sufficient growth for good interception of the spray.

Do not disturb soil or underground plant parts before treatment. Tillage or renovation techniques such as vertical mowing, coring or slicing should be delayed for 7 days after application to allow translocation into underground plant parts.

Desirable turfgrasses can be planted following the above procedures.

Hand-held equipment can be used for spot treatment of unwanted vegetation growing in existing turfgrass. Broadcast or hand-held equipment can be used to control sod remnants or other unwanted vegetation after sod is harvested.

Do not feed or graze turfgrass grown for seed or sod production for 8 weeks following application

8.6 Habitat Management

Habitat Restoration and Management

Use this product to control exotic and other undesirable vegetation in habitat management and natural areas, including riparian and estuarine areas, rangeland and wildlife refuges. Applications can be made to allow recovery of native plant species, prior to planting desirable native species, and for similar broad-spectrum vegetation control requirements. Spot treatments can be made to selectively remove unwanted plants for habitat management and enhancement.

Wildlife Food Plots

Use this product as a site preparation treatment prior to planting wildlife food plots. Any wildlife food species may be planted after applying this product, or native species may be allowed to repopulate the area. If tillage is needed to prepare a seedbed, wait 7 days after application before tillage to allow translocation into underground plant parts.

8.7 Hollow Stem Injection

Apply this product through hand-held injection devices that deliver specified amounts of this product into targeted hollow-stem plants growing in any aquatic or non-crop site specified on this label. For control of the following hollow-stem plants, follow the use instructions helow-

Castorbean (Ricinus communis)

Inject 4 mL/plant of this product into the lower portion of the main stem.

Hemlock, Poison (Conium maculatum)

Inject one leaf cane per plant 10 to 12 inches above root crown with 5 mL of a 5% v/v solution of this product.

Hogweed, Giant (Heracleum mantegazzianum)

Inject one leaf cane per plant 12 inches above root crown with 5 mL of a 5% v/v solution of this product.

Horsetail, Field (Equisetum arvense)

Inject one segment above the root crown with 0.5 mL/stem of this product. Use a small syringe that calibrates to this rate.

Iris, Yellow Flag (Iris Pseudocorus)

^{*}User is responsible for ensuring that tank mixtures with products containing this generic active ingredient may be made provided the specific product is registered for this use.

Cut flower stems with clippers 8 to 9 inches above the root crown. Use a cavity needle that is pushed into the stem center and then slowly removed as 0.5 mL/stem of this product is injected into the stem.

Knotweed, Bohemian (Polygonum bohemicum), Knotweed, Giant (Polygonum sachalinense), and Knotweed, Japanese (Polygonum cuspidatum)

Inject 5 mL/stem of this product into the second or third internode.

Reed, Common (Phragmites australis)

Inject 5 mL per stem of a 50% solution of this product into the second or third internode or into freshly cut stems.

Reed. Giant (Arundo donax)

Inject 6 mL/stem of this product into the second or third internode.

Thistle, Canada (Cirsium arvense)

Cut 8 to 9 of the tallest plants at bud stage in a clump with clippers. Use a cavity needle that is pushed into the stem center and then slowly removed as 0.5 mL/stem of this product is injected into the stem.

NOTE: Based on the maximum annual use rate of glyphosate for these non-crop sites, the combined total for all treatments must not exceed 8 quarts of this product per acre. At 5 mL per stem, 8 quarts should treat approximately 1500 stems.

8.8 Injection and Frill (Woody Brush and Trees)

This product can be used to control woody brush and trees by injection or frill applications. Apply using suitable equipment that must penetrate into the living tissue. Apply the equivalent of 1 mL of this product per each 2 to 3 inches of trunk diameter at breast height (DBH). This is best achieved by applying a 50- to 100-percent concentration of this product either to a continuous frill around the tree or as cuts evenly spaced around the tree below all branches. As tree diameter increases in size, better results are achieved by applying diluted material to a continuous frill or more closely spaced cuttings. Avoid application techniques that allow runoff to occur from frilled or cut areas in species that exude sap freely. In species such as this, make the frill or cuts at an oblique angle to produce a cupping effect and use a 100-percent (undiluted) concentration of this product. For best results, application should be made during periods of active growth and after full leaf expansion.

8.9 Ornamentals, Plant Nurseries, and Christmas Trees

Post-directed, Trim-and-edge

This product can be used as a post-directed spray around established woody ornamental species such as arborvitae, azalea, boxwood, crabapple, eucalyptus, euonymus, fir, douglas fir, jojoba, hollies, lilac, magnolia, maple, oak, poplar, privet, pine, spruce and yew. This product can also be used to trim and edge around trees, buildings, sidewalks and roads, potted plants and other objects in a nursery setting.

Desirable plants may be protected from the spray solution by using shields or coverings made of cardboard or other impermeable material. THIS PRODUCT IS NOT TO BE USED AS AN OVER-THE-TOP BROADCAST SPRAY IN ORNAMENTALS AND CHRISTMAS TREES. Care must be exercised to avoid contact of spray, drift or mist with foliage or bark of established ornamental species.

Site Preparation

This product can be used prior to planting any ornamental, nursery or Christmas tree species.

Wiper Applications

This product can be used through wick or other suitable wiper applicators to control or partially control undesirable vegetation around established eucalyptus or poplar trees. See the **Selective Equipment** section of this label for further information about the proper use of wiper applicators.

Greenhouse/Shadehouse

This product can be used to control weeds growing in and around greenhouses and shadehouses. Desirable vegetation must not be present during application and air circulation fans must be turned off.

Q.10 Parks, Recreational and Residential Areas

All of the instructions in the **Non- Crop Areas and Industrial Sites** section apply to park and recreational areas

This product can be used in parks, recreational and residential areas. It may be applied with any application equipment described in this label to trim-and-edge around trees, tences, and paths, around buildings, sidewalks, and other objects in these areas. This product can be used for spot treatment of unwanted vegetation and to eliminate unwanted weeds growing in established shrub beds or ornamental plantings. This product can be used prior to planting an area to ornamentals, flowers, turfgrass (sod or seed), or prior to laying asphalt or beginning construction projects.

Q.11 Railroads

All of the instructions in the **Non-crop Areas and Industrial Sites** section apply to railroads.

Bare ground, Ballast and Shoulders, Crossings, and Spot Treatment

This product can be used to maintain bare ground on railroad ballast and shoulders. Repeat applications can be made as weeds emerge to maintain bare ground. This product can be used to control tall-growing weeds to improve line-of-sight at railroad crossings and reduce the need for mowing along rights-of-way. For crossing applications, up to 80 gallons of spray solution per acre may be used.

TANK MIXTURES: This product can be tank-mixed with the following products for ballast, shoulder, spot, bare ground and crossing treatments provided that the specific product is registered for use on such sites.

Arsenal	Hyvar X-L	Spike 80DF
atrazine*	Krovar i DF	Telar DF
dicamba*	Oust XP	Transline
Escort XP	Outrider	Velpar DF
Garlon 3A	Sahara DG	Velpar L
Garlon 4	simazine*	2.4-D*
Hyvar X		-,

*Tank mixtures with products containing this active ingredient can be made provided the specific product is registered for this use. User is responsible for ensuring that the mixture product labels allow the specific applications when tank mixing with a generic active ingredient.

Brush Control

This product can be used to control woody brush and trees on railroad rights-of-way. Apply 3 to 8 quarts of this product per acre as a broadcast spray, using boom-type or boomless nozzles. Up to 80 gallons of spray solution per acre may be used. Apply a 0.75- to 1.5-percent solution of this product when using high-volume spray-to-wet applications. Apply a 4- to 8-percent solution of this product when using low-volume directed sprays for spot treatment.

TANK MIXTURES: This product can be mixed with the following products for enhanced control of woody brush and trees provided that the specific product is registered for use on such sites.

Arsenal	Krenite	Transline
Escort XP	Telar DF	Vanquish
Garlon 3A	Tordon K	Velpar DF
Garlon 4	Tordon 22K	Velpar L

Additional instructions are located in the Non-Crop Areas and Industrial Sites section under Brush Control Tank Mixtures.

Bermudagrass Release

This product can be used to control or partially control many annual and perennial weeds for effective release of actively growing bermudagrass. Apply 12 to 36 fluid ounces of this product in up to 80 gallons of spray solution per acre. Use the lower rate when treating annual weeds below 6 inches in height (or runner length). Use the higher rate as weeds increase in size or as they approach flower or seedhead formation. These rates will also provide partial control of the following perennial species:

Bahiagrass	Fescue, tall	Trumpetcreeper
Bluestem, silver	Johnsongrass	Vaseygrass

TANK MIXTURES: This product can be tank-mixed with Oust XP. If tank-mixed, use no more than 12 to 36 fluid ounces of this product with 1 to 2 ounces of Oust XP per acre. Use the lower rates of each product to control annual weeds less than 6 inches in height (or runner length) that are listed in this label and the Oust XP label. Use the higher rates as annual weeds increase in size and approach the flower or seedhead stages. These rates will also provide partial control of the following perennial weeds:

Bahiagrass	Dock, curly	Trumpetcreeper
Blackberry	Dogfennel	Vaseygrass
Bluestem, silver	Fescue, tall	Vervain, blue
Broomsedge	Johnsongrass	
Dallisgrass	Poorjoe	
Dewberry	Raspberry	

Use only on well-established bermudagrass. Bermudagrass injury may result from the treatment, but regrowth will occur under moist conditions. Do not make repeat applications in the same season since severe injury may occur.

Q.12 Roadsides

All of the instructions in the **Non-Crop Areas and Industrial Sites** section apply to roadsides.

Shoulder Treatment

Use this product on road shoulders and applied with boom sprayers, shielded boom sprayers, high-volume off-center nozzles, hand-held equipment, and similar equipment. Guardrails and Other Obstacles to Mowing

This product can be used to control weeds growing under guardrails and around signposts and other objects along the roadside.

Spot Treatment

This product can be used as a spot treatment to control unwanted vegetation growing along roadsides. TANK MIXTURES: This product can be tank-mixed with the following products for shoulder, guardrail, spot and bare ground treatments, provided that the specific tank mixture product is registered for use on such sites. Refer to these product labels and observe the cautionary statements and all other information appearing on the labels of all herbicides used. Use according to the most restrictive precautionary statements for each product in the mixture.

atrazine* Landmark MP Sahara DG Crossbow L Landmark XP simazine* Oust XP dicamba* Surflan AS Outrider Surflan WDG Escort XP pendimethalin* Plateau Telar DF Endurance Velnar DF Gallery 75 DF Plateau DG Velpar L Krovar | DF 2,4-D* Ronstar 50 WSP Landmark II MP

* Tank mixtures with products containing this generic active ingredient can be made provided the specific product is registered for this use. User is responsible for ensuring the mixture product allows the specific application.

Release of Bermudagrass or Bahiagrass

Dormant Applications

This product can be used to control or partially control many winter annual weeds and tall fescue for effective release of dormant bermudagrass or bahiagrass. Treat only when turf is dormant and prior to spring greenup. This product can also be tank-mixed with Outrider or Oust XP for residual control. Tank mixtures of this product with Oust XP may delay greenup.

For best results on winter annuals, treat when plants are in an early growth stage (below 6 inches in height) after most have germinated. For best results on tall fescue, treat when fescue is at or beyond the 4- to 6-leaf stage.

Apply 6 to 48 ounces of this product in a tank mixture with 0.75 to 1.33 ounces Outrider herbicide per acre. Read and follow all label directions for Outrider herbicide.

TANK MIXTURES: Apply 6 to 48 fluid ounces of this product per acre alone or in a tank mixture with 0.25 to 1 ounce per acre of Oust XP. Apply the labeled rates in 10 to 40 gallons of water per acre. Use only in areas where bermudagrass or bahiagrass are desirable ground covers and where some temporary injury or discoloration can be tolerated. To avoid delays in greenup and minimize injury, add no more than 1 ounce of Oust XP per acre on behiagrass and no more than 0.5 ounce of Oust XP per acre on bahiagrass and avoid treatments when these grasses are in a semi-dormant condition.

Actively Growing Bermudagrass

This product can be used to control or partially control many annual and perennial weeds for effective release of actively growing bermudagrass. Apply 12 to 36 fluid ounces of this product in 10 to 40 gallons of spray solution per acre. Use the lower rate when treating annual weeds below 6 inches in height (or runner length). Use the higher rate as weeds increase in size or as they approach flower or seedhead formation. These rates will also provide partial control of the following perennial species:

Bahiagrass Fescue, tall Trumpetcreeper Bluestem, silver Johnsongrass Vaseygrass

TANK MIXTURES: This product can be tank-mixed with Outrider for control or partial control of Johnsongrass and other weeds listed in the Outrider label. Use 6 to 24 ounces of this product with 0.75 to 1.33 ounces of Outrider. Use the higher rates of both products for control of perennial weeds or annual weeds greater than 6 inches in height.

This product can be tank-mixed with Oust XP. If tank-mixed, use no more than 12 to 24 fluid ounces of this product with 1 to 2 ounces of Oust XP per acre. Use the lower rates of each product to control annual weeds less than 6 inches in height (or runner length) that are listed in this label and the Oust XP label. Use the higher rates as annual weeds increase in size and approach the flower or seedhead stages. These rates will also provide partial control of the following perennial weeds:

 Bahiagrass
 Dock, curty
 Poorjoe

 Bluestem, silver
 Dogfennel
 Trumpetcreeper

 Broomsedge
 Fescue, tall
 Vaseygrass

 Dallisgrass
 Johnsongrass
 Vervain, blue

Use only on well-established bermudagrass. Bermudagrass injury may result from the treatment, but regrowth will occur under moist conditions. Do not make repeat applications of the tank mix in the same season since severe injury may occur.

Actively Growing Bahiagrass

For suppression of vegetative growth and seedhead inhibition of bahiagrass for approximately 45 days, apply 4 fluid ounces of this product in 10 to 40 gallons of water per acre. Apply 1 to 2 weeks after full greenup or after mowing to a uniform height of 3 to 4 inches. This application must be made prior to seedhead emergence.

For suppression up to 120 days, apply 3 fluid ounces of this product per acre, followed by an application of 2 to 3 fluid ounces per acre about 45 days later. Make no more than 2 applications per year.

This product can be used for control or partial control of Johnsongrass and other weeds listed on the Outrider label in actively growing bahiagrass. Apply 1.5 to 3.5 fluid ounces of this product with 0.75 to 1.33 ounces of Outrider per acre. Use the higher rates for control of perennial weeds or annual weeds greater than 6 inches in height. Use only on well established bahiagrass.

A tank mixture of this product plus Oust XP may be used. Apply 4 fluid ounces of this product plus 1/4 ounce of Oust XP per acre 1 to 2 weeks following an initial spring mowing. Make only one application per year.

Q.13 Utility Sites

In utilities, use this product along electrical power, pipeline and telephone rights-of-way, and in other sites associated with these rights-of-way, such as substations, roadsides, railroads or similar rights-of-way that run in conjunction with utilities. Use in preparing or establishing wildlife openings within these sites, maintaining access roads and for side trimming along utility rights-of-way.

TANK MIXTURES: Tank mixtures of this product can be used to increase the spectrum of control for herbaceous weeds, woody brush and trees. Any labeled rate of this product can be used in a tank mix.

For control of herbaceous weeds, use the lower tank mixture rates. For control of dense stands or tough-to-control woody brush and trees, use the higher rates.

NOTE: For side trimming treatments, this product may be used alone or in tank mixture with Garlon 4.

Arsenal	Krenite	Surflan AS
atrazine*	Krovar I DF	Surflan WDG
dicamba*	Oust XP	Telar DF
diuron*	Outrider	Transline
Endurance	pendimethalin*	Vanguish
Escort XP	Plateau	Velpar DF
Garlon 3A**	Sahara DG	Velpar L
Garlon 4	simazine*	2.4-D*

- * Tank mixtures with products containing this generic active ingredient can be made provided the specific product is registered for this use. User is responsible for ensuring the mixture product allows the specific application.
- **Ensure that Garlon 3A is thoroughly mixed with water according to label directions before adding this product. Have spray mixture agitating at the time this product is added to avoid spray compatibility problems.

Bare Ground and Trim-and-Edge

Use this product in and around utility sites and substations for bare ground, trim-andedge around objects, spot treatment of unwanted vegetation and to eliminate unwanted weeds growing in established shrub beds or ornamental plantings. This product can be used prior to planting a utility site to ornamentals, flowers, turfgrass (sod or seed), or beginning construction projects.

Repeat applications of this product as weeds emerge to maintain bare ground.

TANK MIXTURES: Tank mix with the following products. Refer to the specific product labels for approved sites and application rates. Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used. Use according to the most restrictive precautionary statements for each product in the mixture.

Arsenal	Garion 3A	Poast
atrazine*	Garlon 4	Ronstar 50W
Barricade 65WG	Goal 2XL	simazine*
Certainty	Krovar I DF	Surflan AS
Crossbow L	Landmark II MP	Surflan WDG
dicamba *	Landmark II	Telar DF
diuron*	Outrider	Transline
Endurance	Oust XP	Velpar DF
Escort XP	pendimethalin*	Velpar L
Gallery 75DF	Plateau	2.4-D*

^{*}Tank mixtures with products containing this generic active ingredient may be made provided the specific product is registered for this use. User is responsible for ensuring the mixture product label allows the specific application.

9.0 Pasture and rangelands

Q.1 Pastures

LABELED GRASSES: Bahiagrass, Bermudagrass, Bluegrass, Brome, Fescue, Guineagrass, Kikuyugrass, Orchardgrass, Pangola grass, Ryegrass, Timothy, Wheatgrass.

Preplant, Preemergence, Pasture Renovation

This product can be applied prior to planting or emergence of forage grasses. In addition, this product can be used to control perennial pasture species listed on this label prior to re-planting.

If application rates total 4.5 pints per acre or less, no waiting period between treatment and feeding or livestock grazing is required. If the rate is greater than 4.5 pints per acre, remove domestic livestock before application and wait 8 weeks after application before grazing or harvesting.

Spot Treatment, Over-the-Top Wiper Applications

This product can be applied as a spot treatment or with wiper applicators in pastures. Applications may be made in the same area at 30-day intervals.

For spot treatments or wiper application methods using rates of 4.5 pints per acre or less, the entire field or any portion of it may be treated. When spot treatments or wiper application are made using rates above 4.5 pints per acre, no more than 10 percent of the total pasture may be treated at any one time. To achieve maximum performance, remove domestic livestock before application and wait 7 days after application before grazing livestock or harvesting.

Postemergent Weed Control (Broadcast Treatments)

This product can be used to suppress competitive growth and seed production of annual weeds and undesirable vegetation in pastures. For selective applications with broadcast spray equipment, apply 9 to 12 fluid ounces of this product per acre in early spring before desirable perennial grasses break dormancy and initiate green growth. Late fall applications can be made after desirable perennial grasses have reached dormancy.

Some stunting of perennial grasses will occur if broadcast applications are made when plants are not dormant. No waiting period is required between application and grazing or harvesting for feed. Use of higher application rates will cause stand reductions. Do not apply more than 4.5 pints per acre per year onto pasture grasses except for renovation uses. If replanting is needed due to severe stand reduction, applications must be made at least 30 days prior to planting any grass not listed for treatment in this label.

Q.2 Rangelands

Postemergence application of this product will control or suppress many annual weeds growing in perennial cool- and warm-season grass rangelands.

Preventing viable seed production is key to the successful control and invasion of annual grassy weeds in rangelands. Follow-up applications in sequential years should eliminate most of the viable seeds.

Grazing of treated areas should be delayed to encourage growth of desirable perennials. Allowing desirable perennials to flower and reseed in the treated area will encourage successful transition.

Apply 9 to 12 fluid ounces of this product per acre to control or suppress many weeds, including downy brome, cheatgrass, cereal ye and jointed goatgrass in rangelands. Apply when most brome plants are in early flower and before the plants, including seedheads, turn color. Allowing for secondary weed flushes to occur in the spring following rain events further depletes the seed reserve and encourages perennial grass conversion on weedy sites. Fall applications are possible and recommended, where spring moisture is usually limited and fall germination allows for good weed growth.

For medusahead, apply 12 fluid ounces of this product per acre at the 3-leaf stage. Delaying applications beyond this stage will result in reduced or unacceptable control. Controlled burning may be useful in eliminating the thatch layer produced by slowly decaying culms prior to application. Allow new growth to occur before spraying after a burn. Repeat applications in subsequent years may be necessary to eliminate the seedbank before reestablishing desirable perennial grasses in medusahead-dominated rangelands.

Slight discoloration of the desirable grasses may occur, but they will regreen and regrow under moist soil conditions as effects of this product wear off. Do not use ammonium sulfate when spraying rangeland grasses with this product. No waiting period between treatment and feeding of livestock grazing is required.

1 n.o crop uses

10.1 Citrus

For use in Florida and Texas on Calamondin, Chironja, Citron, Citrus Hybrids, Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Orange (all), Pummelo, Satsuma Mandarin, Tangelo (ugli), Tangor.

This product can be applied preplant (site preparation) broadcast spray, middles (between rows of trees, vines or bushes), strips (within rows of trees, vines or bushes), shielded sprayers, wiper applications, directed spray, or as spot treatment.

Applications may be made with boom equipment, CDA equipment, shielded sprayers, hand-held and high-volume wands, lances, orchard guns or with wiper applicator equipment, except as directed.

The following instructions pertain to Florida and Texas.

For burndown or control of the weeds listed below, apply the labeled rates of this product in 3 to 30 gallons of water per acre. Where weed foliage is dense, use 10 to 30 gallons of water per acre.

For goatweed, apply 3 to 4.5 pints of this product per acre. Apply in 20 to 30 gallons of water per acre when plants are actively growing. Use 3 pints per acre when plants are less than 8 inches tall and 4.5 pints per acre when plants are greater than 8 inches tall, the addition of Krovar I or Karmex may improve control. Refer to the individual product labels for specific crops, rates, geographic restrictions and precautionary statements.

Perennial weeds:

S = Suppression B = Burndown PC = Partial control C = Control ROUNDUP CUSTOM FOR AQUATIC AND TERRESTRIAL USE RATE PER ACRE

WEED SPECIES	1.5 PT	3 PT	4.5 PT	7.5 PT
Bermudagrass	В		PC	С
Guineagrass				
Texas and Florida Ridge	В	С	С	C
Florida Flatwoods		В	С	C
Paragrass	В	С	С	C
Torpedograss	S	T	PC	C

Allow a minimum of $1\ day$ between last application and harvest in citrus crops. For citron groves, apply as directed sprays only.

1 ().2 Sugarcane

This product can be applied fallow, preplant, preemergence or at-planting using hooded sprayers, shielded sprayers, or by wiper application in row-middles, as a post-harvest treatment, as a spot treatment or as foliar treatment for plant growth regulation.

Preplant, Preemergence, At-Planting

Apply this product in or around sugarcane fields or in fields prior to the emergence of plant cane. Do not apply to vegetation in or around ditches, canals or ponds containing water to be used for irrigation.

Spot Treatment

Apply this product as a spot treatment in sugarcane. For control of volunteer or diseased sugarcane, make a 0.75-percent solution of this product in water and spray-to-wet the foliage of vegetation to be controlled. Volunteer or diseased sugarcane should have at least 7 new leaves. Avoid spray contact with healthy cane plants since severe damage or destruction may result. Do not feed or graze treated sugarcane foliage following application.

Fallow Treatments

Apply this product as a replacement for tillage in fields that are lying fallow between sugarcane crops. This product can also be used to remove the last stubble of ratoon cane. For removal of last stubble of ratoon cane, apply 6 to 7.5 pints of this product in 10 to 40 gallons of water per acre to new growth having at least 7 new leaves. Allow 7 or more days after application before tillage. Ground or aerial application equipment may be used. Applications up to 4.5 pints per acre may be made by aerial application in fallow sites where there is sufficient buffer to prevent injury due to drift onto adjacent crops. Tank mixtures with 2,4-D and dicamba can be used.

Hooded Sprayers

Apply this product through hooded sprayers for weed control between the rows of sugarcane. See the APPLICATION EQUIPMENT AND TECHNIQUES section of this label for additional use instructions.

Do not allow treated weeds to come into contact with the crop. Droplets, mist, foam or splatter of the herbicide solution settling on the crop can result in discoloration, stunting or destruction. Such damage shall be the sole responsibility of the applicator.

Foliar Treatment for Plant Growth Regulation

Do not plant to subsequent crops other than the following for 30 days after application: Corn (All), Soybean, Sorghum (Milo), Cotton, Alfalfa, Beans (All), Forage Grasses, Potatoes (Irish, Sweet), Wheat.

When applied as directed under the conditions described, this product will hasten ripening and extend the period of high sucrose level in sugarcane. It is effective in both low- and high-tonnage sugarcane. As a result of leaf desiccation, improved trash burn can be expected. Within 2 to 3 weeks after application, this product can produce a slight yellowing to pronounced browning and drying of leaves, and a shortening of upper intermodes; spindle death may occur. Most of the sucrose increase is concentrated in the top nodes of the treated cane stalk. In order to recover the maximum sugar where topping is practiced, during harvest, top at the base of the fourth leaf. Prior to application consult your state sugarcane authority or local Monsanto representative regarding the degree of sucrose response anticipated from the variety of sugarcane to be treated.

See the following for rates and time of application for the State in which applications are to be made. **NOTE:** Use the higher rate within the specified range when treating sugarcane under adverse ripening conditions or when less responsive varieties are to be treated.

FLORIDA—Apply 6 to 14 fluid ounces of this product per acre 3 to 5 weeks before harvest of LAST RATOON CANE ONLY.

HAWAII—Apply 10 to 24 fluid ounces of this product per acre 4 to 10 weeks before harvest.

LOUISIANA—Apply 4 to 14 fluid ounces of this product per acre 3 to 7 weeks before harvest of RATOON CANE ONLY.

PUERTO RICO—Apply 6 fluid ounces of this product per acre 3 to 5 weeks before harvest of RATOON CANE ONLY.

TEXAS—Apply 6 to 14 fluid ounces of this product per acre 3 to 5 weeks before harvest of RATOON CANE ONLY.

Application of this product can initiate development of shooting eyes. This product can not increase the sucrose content of sugarcane under conditions of good natural ripening. Do not apply to sugarcane to be harvested for seed purposes. Do not feed or graze treated sugarcane forage following application.

10.3 Chemical Fallow Treatments

Apply this product during fallow intervals preceding planting, prior to planting or transplanting, at-planting, or preemergent to vegetable crops.

When applying this product prior to transplanting or direct-seeding vegetable crops into plastic mulch, care must be taken to remove residues of this product, which could cause crop injury, from the plastic prior to planting. Residues can be removed by a single 0.5-inch application of water, either by natural rainfall or via a sprinkler system. Ensure that the wash water flushes off the plastic mulch and does not enter the transplant holes. Applications made at emergence will result in injury or death to emerged seedlings.

Avoid contact of herbicide with foliage, shoots or stems, green bark, exposed roots (including those emerging from plastic mulch), or fruit of crops because severe injury or

destruction may result. Post-harvest or fallow applications must be made at least 30 days prior to planting any non-labeled crop.

10.4 Sod or Commercial Sod Production

Preplant, Preemergence, At-Planting, Renovation, Site Preparation

This product controls most existing vegetation prior to renovating turf or forage grass seed areas or establishing turf grass grown for sod. Make applications before, during, or after planting or for renovation. For maximum control of existing vegetation, delay planting to determine if any regrowth from escaped underground plant parts occurs. Where existing vegetation is growing under mowed turfgrass management, apply this product after omitting at least one regular mowing to allow sufficient growth for good interception of the spray. Where repeat treatments are necessary, sufficient regrowth must be attained prior to application. For warm-season grasses, such as Bermudagrass, summer or fall applications provide best control. Broadcast equipment may be used to control sod remnants or other unwanted vegetation after sod is harvested.

Do not disturb soil or underground plant parts before treatment. Tillage or renovation techniques such as vertical mowing, coring or slicing should be delayed for 7 days after application to allow proper translocation into underground plant parts. If application rates total 72 fluid ounces per acre or less, no waiting period between treatment and feeding or livestock grazing is required. If the rate is greater than 4.5 pints per acre, remove domestic livestock before application and wait 8 weeks after application before grazing or harvesting. For any crop not listed for treatment in this label, applications must be made at least 30 days prior to planting. Applications must be made prior to the emergence of the crop to avoid crop injury.

Shielded Sprayers

Apply 1.5 to 4.5 pints of this product in 10 to 20 gallons of water per acre to control weeds between grass seed rows. Uniform planting in straight rows aid in shielded sprayer applications. Best results are obtained when the grass seed crop is small enough to easily pass by the protective shields. For additional instructions, see **Hooded** and **Shielded Applicators** in the **Selective Equipment** section.

Contact of this product in any manner to any vegetation to which treatment is not intended can cause damage. Such damage shall be the sole responsibility of the applicator.

Over-the-Top Wiper Applications

Adjust applicators so that the wiper contact point is at least 2 inches above the desirable vegetation. Weeds should be a minimum of 6 inches above the desirable vegetation. Better results may be obtained when more of the weed is exposed to the herbicide solution. Weeds not contacted by the herbicide solution will not be affected. This may occur in dense clumps, severe infestations, or when height of weeds varies so that not all weeds are contacted. In these instances, repeat treatments may be necessary. For additional instructions, see **Wiper Applicators** in the **Selective Equipment** section.

Contact of the herbicide solution with desirable vegetation can result in damage or destruction.

Spot Treatment

Apply this product as a 1-percent solution prior to heading of grasses grown for seed. The crop receiving the spray in the treated area will be killed. Take care to avoid drift or spray outside the target area for the same reason. Use hand-held equipment to control sod remnants or other unwanted vegetation after sod is harvested.

Creating Rows in Annual Ryegrass

Use 12 to 24 fluid ounces of this product per acre. Use the higher rate when the ryegrass is greater than 6 inches tall. Best results are obtained when applications are made before the ryegrass reaches 6 inches in height.

Set nozzle heights to allow the establishment of the desired row spacing while preventing spray droplets, spray fines, or drift to contact the ryegrass plants not treated. Use of low-pressure nozzles, or drop nozzles designed to target the application over a narrow band are recommended.

Grower assumes all responsibility for crop losses from misapplication.

1 1 .0 USES AROUND THE FARMSTEAD

1 1.1 Weed Control and Trim-And-Edge

This product can be used to control annual weeds, perennial weeds and woody brush which are found in any part of the farmstead, including building foundations, along and in fences, in dry ditches and canals, along ditchbanks, farm roads, shelterbelts, prior to landscape plantings and equipment storage areas.

This product can be tank-mixed with the following products, provided that the specific product is registered for use on such non-agricultural crop sites. Refer to these product labels for approved farmstead sites and application rates. For annual weeds, use 1.5 pints per acre of this product when weeds are less than 6 inches tall, 2.25 pints per acre when weeds are 6 to 12 inches tall and 3 pints per acre when weeds are greater than 12 inches tall. For perennial weeds, apply 3 to 7.5 pints per acre in these tank mixes. For tank mixtures with these products through backpack sprayers, handguns or other

high-volume spray-to-wet applications, see the ANNUAL WEED\$ section for hand-held or high-volume equipment of this label for specific rates.

Krovar I DF Arsenal Ronstar 50 WP Banvel/Clarity Oust XP Sahara Barricade 65WG Pendulum 3.3 EC simazine diuron Pendulum WDG Surflan Endurance Plateau Telar Escort Princep Df Vanquish Karmex DF Princep Liquid 2.4-D This product plus dicamba tank mixtures may not be applied by air in California.

1 1 .2 Greenhouse/Shadehouse

This product can be used to control weeds in and around greenhouses and shadehouses. Desirable vegetation must not be present during application and air circulation fans must be turned off.

1 1.3 Chemical Mowing

This product will suppress perennial grasses listed in this section to serve as a substitute for mowing. Use 4.5 fluid ounces of this product per acre when treating Kentucky bluegrass. Use 6 fluid ounces of this product per acre when treating tall fescue, fine fescue, orchardgrass, bahiagrass or quackgrass covers. Use 12 fluid ounces of this product per acre when treating bermudagrass. Use 48 fluid ounces of this product per acre when treating torpedograss or paragrass. Apply treatments in 10 to 20 gallons of spray solution per acre. Chemical mowing applications may be made along farm ditches and other parts of farmsteads.

Use only in areas where some temporary injury or discoloration of perennial grasses can be tolerated.

12.0 WEEDS CONTROLLED

Always use the higher rate of this product per acre within the labeled range when weed growth is heavy or dense or weeds are growing in an undisturbed (non-cultivated) area.

Reduced results can occur when treating weeds heavily covered with dust. For weeds that have been mowed, grazed or cut, allow regrowth to occur prior to treatment.

Refer to the following label sections for application rates for the control of annual and perennial weeds and woody brush and trees. For difficult to control perennial weeds and woody brush and trees, where plants are growing under stressed conditions, or where infestations are dense, use this product at 4.5 to 8 quarts per acre for enhanced results.

12.1 Annual Weeds

Apply to actively growing annual grasses and broadleaf weeds.

Allow at least 3 days after application before disturbing treated vegetation. After this period the weeds may be mowed, tilled or burned. See **DIRECTIONS FOR USE, PRODUCT INFORMATION** and **MIXING** and **APPLICATION INSTRUCTIONS** for labeled uses and specific application instructions.

Use 1.5 pints per acre if weeds are less than 6 inches in height or runner length and 1 to 4 quarts per acre if weeds are over 6 inches in height or runner length or when weeds are growing under stressed conditions.

For spray-to-wet applications, apply a 0.5-percent solution of this product to weeds less than 6 inches in height or runner length. Apply prior to seedhead formation in grass or bud formation in broadleaf weeds. For annual weeds over 6 inches tall, or for smaller weeds growing under stressed conditions, use a 0.75- to 1.5-percent solution. Use the higher labeled rate for tough-to-control species or for weeds over 24 inches tall.

WEED SPECIES

Anoda, spurred Copperleaf, Virginia Balsamapple** Coreopsis, plains/tickseed* Corn* Barley* Barley, little* Crabgrass* Barnyardgrass* Cupgrass, woolly* Dwarfdandelion* Bassia, fivehook Bittercress* Eclipta* Falsedandelion* Bluegrass, annuals Falseflax, smallseed* Bluegrass, bulbous* Brome, downy Fiddleneck

Brome, Japanese* Filaree
Broomsedge Fleabane, annual*
Buttercup* Fleabane, hairy (Conyza bonariensis)*

Castoribean Fleabane, rough*
Cheatgrass* Foxtail*
Cheeseweed (Maiva parviflora) Foxtail, Carolina*

Chervil* Geranium, Carolina
Chickweed* Goatgrass, jointed*
Cocklebur* Goosegrass
Copperleaf, hophornbeam Groundsel, common

Henbit Rocket, London* Horseweed/Marestail (Conyza canadensis) Rocket, Yellow Itchgrass* Johnsongrass, seedling Ryegrass* Sandbur, field* Junglerice Knotweed Sesbania, hemp Kochia Shattercane* Lamb's-quarters* Shepherd's-purse* Lettuce, prickly* Sicklepod Mannagrass, eastern* Signalgrass, broadleaf* Mayweed Smartweed, ladysthumb* Medusahead* Smartweed, Pennsylvania* Morningglory (Ipomoea spp) Sorghum, grain (milo)* Sowthistle, annual Spanishneedles*** Mustard, blue* Mustard, tansy Mustard, tumble* Speedwell, Corn* Mustard, wild* Speedwell, purslane* Nightshade, black* Sprangletop* Oats Spurge, annual Panicum, browntop* Spurge, prostrate* Panicum, fall* Spurge, spotted* Panicum, Texas* Spurry, umbrella* Pennycress, field* Starthistle, yellow Pepperweed, Virginia* Stinkgrass* Sunflower* Puncturevine Teaweed / Prickly sida Purslane, common Thistle, Russian Pusley, Florida Velvetleaf Ragweed, common* Wheat* Ragweed, giant Wild oats* Rice, red Witchgrass*

- When using field broadcast equipment (aerial applications or boom sprayers using flat-fan nozzles) these species will be controlled or partially controlled using 12 fluid ounces of this product per acre. Applications must be made using 3 to 10 gallons of carrier volume per acre. Use nozzles that ensure thorough coverage of foliage and treat when weeds are in an early growth stage.
- Apply with hand-held equipment only.
- Apply 3 pints of this product per acre.

7.2 Perennial Weeds

Best results are obtained when perennial weeds are treated after they reach the reproductive stage of growth (seedhead initiation in grasses and bud formation in broadleaves). For non-flowering plants, best results are obtained when the plants reach a mature stage of growth. In many situations, treatments are required prior to these growth stages. Under these conditions, use the higher application rate within the labeled range.

- · Apply when target plants are actively growing. Do not treat when target plants are under drought stress.
- · Ensure thorough coverage when using spray-to-wet treatments using hand-held
- · When using hand-held equipment for low-volume directed spot treatments, apply a 4- to 8-percent solution of this product.
- Allow 7 or more days after application before tillage or mowing. If weeds have been mowed or tilled, do not treat until regrowth has reached the specified stages.
- · Fall treatments must be applied before a killing frost.
- · Repeat treatments may be necessary to control weeds regenerating from underground

Weed Species	Rate (QT/A)	Hand-Held % Solution
Alfalfa*	0.7	1.5
Alligatorweed*	3	1.3
Apply when most of the target plants required to maintain such control.	s are in bloom. Repeat a	pplications will be
Anise (fennet)	1.5 – 3	1-1.5
Bahiagrass	2.3 - 3.75	1.5
Beachgrass, European (Ammophila arenaria) Apply an 8-percent solution of this prod on a low-volume spray-to-wet basis. are made when European beachgras full heading stages of growth. Make at green leaf color in the fall. Repeat : Monitor treated areas prior to reseedin of European beachgrass with wiper ap	Best results are obtained s is actively growing thro pplications prior to the loss applications may be necess g of desirable vegetation.	when applications ugh the boot to the of more than 50% ssary to treat skips For selective contro
product plus 1 to 2.5 percent nonionic of herbicide solution with desirable veg may improve performance. Maximizing with the wiping equipment will result in	surfactant during active g etation. Wiping the plants in the amount of individual b	rowth. Avoid contact opposite directions
Bentgrass*	1	1.5
Rermidagrass	Δ	15

Apply to target plants when seed heads appea		
Bermudagrass, water (knotgrass)	1	1.5
Bindweed, field	2.3 - 3.75	1.5
Apply 3 to 3.75 quarts of this product per a	icre as a broadcast sp	ray west of the
Mississippi River and 2.3 to 3 quarts of this p River. Apply when most target plants are at or b	eyond full bloom. New I	
indicates active growth. For best results apply		
Bluegrass, Kentucky	1.5 – 2.3	0.75
Apply when most target plants have reached t applied prior to the boot stage, less desirable of before plants have turned brown.		
Blueweed, Texas	2.3 – 3.75	1.5
Apply 3 to 3.75 quarts of this product per a Mississippi River and 2.3 to 3 quarts of this p River. Apply when most target plants are at or b indicates active growth. For best results apply	product per acre east of eyond full bloom. New l in late summer or fall.	the Mississippi eaf development
Brackenfern	2.3 – 3	0.75 - 1
Apply to fully expanded fronds which are at lea		A 7F
Bromegrass, smooth	1.5 - 2.3	0.75
Apply when most target plants have reached t applied prior to the boot stage, less desirable of before plants have turned brown.		
Bursage, woolly-leaf	_	1.5
Canarygrass, reed	1.5 - 2.3	0.75
Apply when most target plants have reached t	he boot-to-head stage	of growth. When
applied prior to the boot stage, less desirable of before plants have turned brown.		
Cattail	2.3 - 3.75	0.75
Apply when target plants are actively growing bloom stage of growth. Best results are achieve		
summer or fall months.		
Clover; red, white	2.3 – 3.75	1.5
Cogongrass	2.3 – 3.75	1.5
Apply when cogongrass is at least 18 inches tal		
fall. Due to uneven stages of growth and the der		
spray coverage, repeat treatments may be nec Cordgrass	See Sect 8.1	2–8
Schedule applications in order to allow 6 hour		
tidewater. When applying spray to wet with har solution of this product. Ensure complete cove	nd-held equipment, use	a 2 to 8 percent
point of run-off. Follow specific application ins	tructions in Section 8.1	Aquatic Sites.
Cutgrass, giant*	3	1
Repeat applications will be required to mai vegetation is partially submerged in water. Allo 10-leaf stage prior to retreatment.		
Dallisgrass	2.3 - 3.75	1.5
Dandelion	2.3 – 3.75	1.5
Dock, curly	2.3 – 3.75	1.5
Dogbane, hemp	3	1.5
Apply when most target plants have reached if For best results, apply in late summer or fall.	the late bud-to-flower s	stage of growth.
Fescue (except tall)	2.3 – 3.75	1.5
Fescue, tall	2.3	1
Apply when most target plants have reached the applied prior to the boot stage, less desirable of the prior to the boot stage.	ontrol may be obtained	
Guineagrass	2.3	0.75
Apply when most target plants have reached at		
Hemlock, poison Also see Hollow Stem Injection section of this l		0.75 – 1.5
Horsenettle	2.3 – 3.75	1.5
Horseradish	3	1.5
Apply when most target plants have reached to For best results, apply in late summer or fall.		
Iceplant	1.5	1.5

Iceplant lvy: German, cape 1.5 - 30.75 - 1.52.3 - 3.75Jerusalem artichoke 1.5 Johnsongrass 1.5 - 2.30.75

Apply when most target plants have reached the boot-to-head stage of growth. When applied prior to the boot stage, less desirable control may be obtained. In the fall, apply before plants have turned brown.

Kikuyugrass 0.75 Knapweed 3

Apply when most target plants have reached the late bud-to-flower stage of growth. For best results, apply in late summer or fall.

Knotweed; Bohemian, Giant, Japanese (Polygonum bohemicum, P. sachalinense and P. cuspidatum) Stem Injection: See the Hollow Stem Injection section of this label

<u>Cut Stem:</u> Cut stems cleanly just below the 2nd or 3rd node above the ground. Immediately apply 0.36 fluid ounce (10 mLs) of a 50-percent solution of this product into the 'well' or remaining internode. Ensure that removed upper plant material is carefully gathered and discarded so that it will not contact soil and regenerate plants from sprouting buds. Use of a bio-barrier such as cardboard, plywood or plastic sheeting is recommended.

The combined total for all treatments must not exceed 8 quarts per acre. At 10 mL of a 50-percent solution, approximately 1500 stems per acre may be treated

Lantana	_	0.75 - 1
Apply when most target plants are higher application rate for plants tha	at or beyond the bloom s it have reached the wood	stage of growth. Use the stage of growth.
Lespedeza	2,3 - 3.75	Ĺ5
Loosestrife, purple	2	1-1.5
Treat when most target plants are at are achieved when application is ma must be applied before a killing frost letter. American	ide during summer or fall	
Lotus, American Treat when most target plants are at are achieved when application is ma must be applied before a killing fros regrowth from underground parts an	or beyond the bloom stag de during summer or fall st. Repeat treatment may	e of growth. Best result months. Fall treatment
Maidencane	3	0.75
Repeat treatments will be required, water. Under these conditions, allow retreatment.		
Milkweed, common	2.3	1.5
Apply when most target plants have	IN COLUMN TWO IS NOT THE OWNER.	
Muhly, wirestem	1.5 - 2.3	0.75
Apply when most target plants are growth) and actively growing.	at least 8 inches in heig	ght (3 to 4-leaf stage
Mullein, common	2.3 - 3.75	1.5
Napiergrass	2.3 - 3.75	1.5
Nightshade, silverleaf	2.3 - 3.75	1.5
beyond full bloom. Best results can be obtai leaf development indicates active growth. F Nutsedge; purple, yellow Apply this product to control existing to treated plants. Apply when target found at rhizome tips. Nutlets which	or best results apply in late su 2.3 g nutsedge plants and im plants are in flower or w	mmer or fall. 0.75 mature nutlets attache /hen new nutlets can b
round at mizome ups. Notices which may germinate following treatment. control.		
Orchardgrass	1.5 – 2.3	0.75
Apply when most target plants have applied prior to the boot stage, less of before plants have turned brown.	reached the boot-to-hea	d stage of growth. Who
Pampasgrass	2.3 - 3.75	1.5
Para grass	3	0.75
Repeat treatments may be required. Allow f Pepperweed, perennial	or regrowth to the 7- to 10-lea 3	f stage prior to retreatmen 1.5
Phragmites*	2-3.75	0.75 - 1.5
For partial control of phragmites in I the Gulf of Mexico, apply 3.75 qu 1.5-percent solution with hand-held quarts per acre as a broadcast spraequipment for partial control. For being when plants are actively growing a vegetation, which may prevent goo repeat treatments may be necessa will be slow to develop.	Florida and the counties of arts per acre as a broa equipment. In other area: y or apply a 0.75-percent st results, treat during lat and in full bloom. Due to d spray coverage and ur ry to maintain control. V	of other states borderii dcast spray or apply s of the U.S., apply 2 to solution with hand-he e summer or fall month the dense nature of the neven stages of growt isual control sympton
Quackgrass Apply when most target plants are	1.5 – 2.3 at least 8 inches in heig	0.75 ght (3 to 4-leaf stage
growth) and actively growing.	1.5	1.5
Redvine*	1.5	1.5
Dead stank	3 – 3.75	
Reed, giant Best results are obtained when appli Hollow Stem Injection section of this	cations are made in late : label.	summer to fall. Also so
Best results are obtained when appli Hollow Stem Injection section of this	label.	
Best results are obtained when appli	label. 1.5 – 2.3 reached the boot-to-hea	0.75 d stage of growth. Who

Jaivilla, glait	0 0.70	-
Apply as a 2.0% v/v spray-to-wet so containing at least 70% active ingrequants of this product with an aque v/v nonionic organosilicone and 0.29 d0 gallons per acre as a broadcast before disturbing treated vegetation completely submerged or have a maximum and the submerged or have a maximum accompletely submerged or have a	edient. For broadcast applica atic approved surfactant sys 5% v/v nonionic spreader sit treatment. Allow at least 3 n. This product does not con ajority of their foliage under v	tions, apply 3 to 3.75 tem containing 0.1% cker surfactant in 3 to days after application trol plants which are vater.
Smartweed, swamp	2.3 – 3.75	1.5
Spatterdock	3	0.75
Apply when most plants are in full or fall months.	bloom. For best results, app	
Spurge, leafy*	A Principal of the Land	1.5
Starthistle, yellow	-	$\frac{1.5}{1.5}$
Sweetpotato, wild*		1.5
Apply when most target plants are applications will be required. Allow before retreatment.		

1.5 - 2.3

2

Thistle, artichoke Apply when target plants are at or beyond the bud stage of growth.

Thistle, Canada	1.5 – 2.3	1.5
Apply when target plants are at or	beyond the bud stage of growt	h. Also see Hollow

Timothy Apply when most target plants have reached the boot-to-head stage of growth. When applied prior to the boot stage, less desirable control may be obtained. In the fall, apply before plants have turned brown.

3 - 3.750.75 - 1.5Torpedograss* Use the lower recommended rates under terrestrial conditions and the higher rates under partially submerged or a floating mat conditions. Repeat treatments will be required to maintain such control.

1.5 - 2.3Trumpetcreeper* Tules, common 1.5

Apply to target plants at or beyond the seedhead stage of growth. After application, visual symptoms will be slow to appear and may not occur for 3 or more weeks.

2.3 - 3.75Vaseygrass 2.3 - 3.751.5 Velvetgrass Waterhyacinth 2.5 - 30.75 - 1

Apply when target plants are at or beyond the early bloom stage of growth. After application, visual symptoms may require 3 or more weeks to appear with complete necrosis and decomposition usually occurring within 60 to 90 days. Use the higher recommended rates when more rapid visual effects are desired.

Waterlettuce Use higher recommended rates where infestations are heavy. Best results are obtained from mid-summer through winter applications. Spring applications may require

Waterprimrose

Apply to plants that are at or beyond the bloom stage of growth, but before fall color changes occur. Thorough coverage is necessary for best control. Wheatgrass, western

Apply when most target plants have reached the boot-to-head stage of growth. When applied prior to the boot stage, less desirable control may be obtained. In the fall, apply before plants have turned brown.

Other perennials listed on this label - Apply 2.3 to 3.75 quarts of this product per acre as a broadcast spray or as a 0.75- to 1.5-percent solution with hand-held equipment. Apply when target plants are actively growing and most have reached early head or early

12.3 Woody Brush and Trees

Apply this product after full leaf expansion, unless otherwise directed. Use the higher rate for larger plants and/or dense areas of growth. On vines, use the higher rate for plants that have reached the woody stage of growth. Best results are obtained when application is made in late summer or fall after fruit formation. Apply when plants are actively growing. Thorough coverage of foliage is necessary for best results. Avoid application to drought-stressed plants.

In arid areas, best results are obtained when applications are made in the spring to early summer when brush species are at high moisture content and are flowering.

Ensure thorough coverage when using spray-to-wet treatments using hand-held

When using hand-held equipment for low-volume directed-spray spot treatments, apply a 4- to 8-percent solution of this product.

Symptoms may not appear prior to frost or senescence with fall treatments.

Allow 7 or more days after application before tillage, moving or removal. Repeat treatments may be necessary to control plants regenerating from underground parts or seed. Some autumn colors on undesirable deciduous species are acceptable provided no major leaf drop has occurred. Reduced performance may result if fall treatments are

Weed Species	Broadcast Rate (QT/A)	Hand-Held Spray-To-Wet % Solution
Alder	2.3 - 3	0.75 - 1.2
Ash*	1.5 - 3.75	0.75 ± 1.5
Aspen, quaking	1.5 - 2.3	0.75 - 1.2
Bearclover (Bearmat)*	1.5 - 3.75	0.75 - 1.5
Beech*	1.5 - 3.75	0.75 - 1.5
Birch	1.5	0.75
Blackberry	2.3 - 3	0.75 - 1.2
Blackgum	1.5 - 3.75	0.75 - 1.5
Bracken	1.5 - 3.75	0.75 - 1.5
Broom; French, Scotch	1.5 - 3.75	1.2 - 1.5
Buckwheat, California*	1.5 - 3	0.75 - 1.5
Cascara*	1.5 - 3.75	0.75 - 1.5
Castorbean	1.5 - 3.75	1.5
Also see Hollow Stem Injer	ction section of this label.	
Catsclaw*		1.2 – 1.5

For partial control, apply this product when at least 50 percent of the new leaves are

^{*}Partial control

Ceanothus*	1.5 – 3.75	0.75 – 1.5
Chamise*	1.5 – 3.75	0.75
Cherry; bitter, black, pin	1.5 – 3.75	1-1.5
Cottonwood, eastern	1.5 – 3.75	0.75 – 1.5
Coyote brush	2.3 – 3	1.2 – 1.5
For control, apply when at		new leaves are fully developed.
Cypress; swamp, bald	1.5 - 3.75	0.75 - 1.5
Deerweed	1.5 – 3.75	0.75 - 1.5
Dewberry Dogwood*	2.3 - 3 3 - 3.75	0.75 – 1.2 1 – 2
Elderberry	1.5	0.75
Elm*	1.5 – 3.75	0.75 - 1.5
Eucalyptus, bluegum	3	1.5
For control of eucalyptus of	esprouts, apply this prod	luct with hand-held equipment when
resprouts are 6- to 12-fee Gallberry	et tall. Ensure complete t 1.5 – 3.75	0.75 – 1.5
Gorse*	1.5 = 3.75	0.75 - 1.5
Hackberry, western	1.5 – 3.75	0.75 - 1.5
Hasardia*	1.5 – 3	0.75 - 1.5
Hawthorn	1.5 - 2.3	0.75 - 1.2
Hazel	1.5	0.75
Hickory*	3 – 3.75	1-2
Honeysuckie	2.3 – 3	0.75 - 1.2
Hornbeam, American*	1.5 - 3.75	0.75 – 1.5
Huckleberry	1.5 – 3.75	0.75 – 1.5
lvy, poison	3 – 3.75	1.5
Kudzu Locust, black*	3	1.5
Madrone resprouts*	1.5 – 3	0.75 – 1.5 1.5
Magnolia, sweetbay	1.5 – 3.75	0.75 – 1.5
Manzanita*	1.5 – 3.75	0.75 – 1.5
Maple, red	1-3.75	0.75 – 1.3
		and-held equipment when leaves are fully
developed. For partial control, a	apply 1 to 3.75 quarts of this	product per acre as a broadcast spray.
Maple, sugar	-11	0.75 - 1.2
For control, apply as a 0.7	5- to 1.2-percent soluti	on with hand-held equipment when
at least 50 percent of the		•
Maple, vine* Monkey flower*	1.5 - 3.75 1.5 - 3	0.75 - 1.5 0.75 - 1.5
Oak; black, white*	1.5 – 3	0.75 – 1.5
Oak; northern pin	1.5 – 3	0.75 – 1.3
		new leaves are fully developed.
Oak, poison	3 – 3.75	1.5
Repeat applications may	be required to maintain	n control. Fall treatments must be
applied before leaves lose	The state of the s	
Oak, post	2.3 – 3	0.75 – 1.2
Oak, red	— IE to 1.0 paraget activiti	0.75 – 1.2
at least 50 percent of the		on with hand-held equipment when
Oak, scrub*	1.5 _ 3	0.75 – 1.5
Oak, southern red	1.5 - 3.75	1-1.5
Orange, Osage	1.5 - 3.75	0.75 – 1.5
Peppertree, Brazilian		
(Florida holly)*	1.5 – 3.75	1.5
Persimmon* Pine	1.5 – 3.75	0.75 – 1.5
Poplar, yellow*	1.5 – 3.75 1.5 – 3.75	0.75 - 1.5 0.75 - 1.5
Prunus	1.5 – 3.75	1-1.5
Raspberry	2.3 – 3	0.75 - 1.2
Redbud, eastern	1.5 - 3.75	0.75 – 1.5
Redcedar, eastern	1.5 - 3.75	0.75 - 1.5
Rose, multiflora	1.5	0.75
Russian olive*	1.5 – 3.75	ion by leaf-feeding insects.
Sage, black	1.5 – 3.75	0.75 — 1.5 0.75
Sage, white*	1.5 – 3	0.75 – 1.5
Sagebrush, California	1.5 – 3	0.75
Salmonberry	1.5	0.75
Saltbush	- 0.75	1
Saltcedar	3 – 3.75	1-2
equipment or 3 to 3.75 qua 2-percent solution of this equipment. For control usi	arts per acre as a broado product mixed with 0.2 ing broadcast application	ion of this product with hand-held cast spray. For control, apply a 1- to 25-percent Arsenal with hand-held ns, apply 1.5 quarts of this product than 6 feet tall. To control saltcedar

greater than 6 feet tall using broadcast applications, apply 3 quarts of this product in

0.75 - 1.5

1.5 - 3.75

a tank-mix with 2 pints of Arsenal.

Sassafras*

Sea Myrtle

Sourwood*	1.5 - 3.75	0.75 – 1.5
Surnac; laurel, poison, smooth, sugarbush,	15.2	0.75 1.5
winged*	1.5 - 3	0.75 - 1.5
Sweetgum	1.5 - 2.3	0.75 - 1.5
Swordfern*	1.5 - 3.75	0.75 - 1.5
Tallowtree, Chinese	-	0.75
Tanoak resprouts*		1.5
Thimbleberry	1.5	0.75
Tobacco, tree*	1.5 – 3	0.75 - 1.5
Toyon*	_	1.5
Trumpetcreeper	1.5 - 2.3	0.75 - 1.2
Vine maple*	1.5 - 3.75	0.75 - 1.5
Virginia creeper	1.5 - 3.75	0.75 - 1.5
Waxmyrtle, southern*	1.5 - 3.75	1.5
Willow	2.3	0.75
Yerba Santa, California*		
California	_	1.5

* Partial control

Other woody brush and trees listed in this label — For partial control, apply 1.5 to 3.75 quarts of this product per acre as a broadcast spray or as a 0.75- to 1.5-percent solution with hand-held equipment.

13.0 LIMIT OF WARRANTY AND LIABILITY

Monsanto Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth in the Complete Directions for Use label booklet ("Directions") when used in accordance with those Directions under the conditions described therein. NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated herein.

Buyer and all users shall promptly notify this Company of any claims whether based in contract, negligence, strict liability, other tort or otherwise.

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This Company does not warrant any product reformulated or repackaged from this product except in accordance with this Company's stewardship requirements and with express written permission from this Company.

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Upon opening and using this product, buyer and all users are deemed to have accepted the terms of this LIMIT OF WARRANTY AND LIABILITY which may not be varied by any verbal or written agreement. If terms are not acceptable, return at once unopened.

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No license granted under any non-U.S. patent(s).

EPA Reg. No. 524-343

In case of an emergency involving this product, or for medical assistance, Call Collect, day or night, (314) 694-4000.



MONSANTO COMPANY 800 N. Lindbergh Blvd. St. Louis, Missouri, 63167 U.S.A. ©2013 032712

ATENCIÓN:

Esta etiqueta de muestra se entrega únicamente para información general.

- Este producto pesticida puede no estar todavía disponible o aprobado para la venta o utilización en su localidad.
- Usted tiene la responsabilidad de cumplir todas las leyes federales, estatales y locales, así como todas las reglamentaciones relativas a la utilización de pesticidas.
- · Antes de utilizar un pesticida, asegúrese de que esté aprobado en su estado o localidad.
- Su estado o localidad puede exigir precauciones adicionales e instrucciones para la utilización de este producto que no están incluidas aquí.
- Monsanto no garantiza el lo completo ni la certeza de esta etiqueta de la espécimen. La información encontró en esta etiqueta puede diferir de la información encontró en la
 etiqueta del producto. Usted debe tener consigo la etiqueta aprobada por la agencia EPA cuando utilice el producto y debe leer y respetar todas las instrucciones en la etiqueta.
- No debe basarse sobre las precauciones, las instrucciones de utilización y cualquier otra información en esta etiqueta para utilizar algún otro producto similar.
- Siempre siga las precauciones y las instrucciones para el uso en la etiqueta del pesticida que usted utiliza.





Instrucciones de Uso Completas

Roundup Custom™ para aplicaciones acuáticas y terrestres es un herbicida profesional completo de post emergencia y de amplia efectividad, para el control de malezas en zonas acuáticas, cultivos, lugares no cultivados, zonas industriales, céspedes, ornamentales, bosques, bordes de carretera y servidumbres de servicios públicos.

EPA Reg. No. 524-343 2012-

GROUP 9 HERBICIDE

EVITE EL CONTACTO DEL HERBICIDA CON EL FOLLAJE, TALLOS VERDES, RAÍCES NO LEÑOSAS EXPUESTAS O FRUTOS EXPUESTOS DE LOS CULTIVOS, PLANTAS Y ÁRBOLES DESEABLES. EN CASO CONTRARIO ES PROBABLE QUE SUFRAN GRAVES DAÑOS O SEAN DESTRUIDOS TOTALMENTE.

Lea toda la etiqueta antes de utilizar este producto.

Use solo según las instrucciones de la etiqueta.

No todos los productos indicados en esta etiqueta han sido registrados para su uso en California. Verifique la situación de registro de cada producto en California antes de utilizarlo.

Antes de comprar o usar el producto, lea "LÍMITES EN LA GARANTÍA Y EN LA RESPONSABILIDAD" en la última sección de la etiqueta. Si las condiciones son inaceptables, devuelva el producto inmediatamente sin abrir el envase.

ESTE ES UN PRODUCTO PARA USARSE TAL Y COMO ESTÁ PREPARADO. MONSANTO NO LO HA DISEÑADO NI LO HA REGISTRADO PARA QUE SEA REFORMULADO. VEA LA ETIQUETA DEL ENVASE INDIVIDUAL PARA ENTERARSE DE LAS LIMITACIONES DE REEMPAQUE.

INFORMACIÓN SOBRE EL PRODUCTO

1.0 INGREDIENTES

INGREDIENTE ACTIVO:

*Contiene 648 gramos por litro o 5.4 libras por galón americano del ingrediente activo glifosato, en forma de su sal de isopropilamina. Equivalente a 480 gramos por litro o 4.0 libras por galón americano del ácido, glifosato.

No se han otorgado licencias de uso bajo ninguna patente que no sea de los Estados Unidos de América.

7.0 NÚMEROS DE TELÉFONO IMPORTANTES

PARA INFORMACIÓN SOBRE EL PRODUCTO O AYUDA PARA UTILIZAR ESTE PRO-DUCTO, LLAME GRATIS AL, 1-800-332-3111.

EN CASO DE EMERGENCIA CON RESPECTO A ESTE PRODUCTO O PARA SOLICITAR ASISTENCIA MÉDICA, LLAME CON CARGO REVERTIDO, LAS 24 HORAS, AL, (314)-694-4000.

3.0 DECLARACIONES PREVENTIVAS

3.1 Riesgos para seres humanos y animales domésticos

Manténgase Fuera del Alcance de los Niños.

iPRECAUCIÓN!

ANIMALES DOMÉSTICOS: Se considera que este producto es relativamente no tóxico para perros y otros animales domésticos, sin embargo, la ingestión de este producto o de abundantes cantidades de vegetación rociada recientemente puede causar irritación gastrointestinal temporal (vómitos, diarrea, cólicos, etc.). Si observa estos síntomas, dé de beber al animal abundante cantidad de líquido para evitar su deshidratación. Llame a un veterinario si los síntomas persisten más de 24 horas.

Equipo de protección personal (PPE)

Los usuarios y personas que manipulan este producto deben usar: camisas de mangas largas y pantalones largos, además de zapatos y calcetines. Respete las instrucciones del fabricante para limpiar y mantener el equipo de protección personal (PPE). En caso de que no haya instrucciones, lave el equipo protector con detergente y agua caliente. Mantenga el PPE apartado del resto de la ropa, y lávelo por separado. Declaraciones de control de ingeniería: Cuando las personas que manipulan el producto emplean sistemas cerrados, cabinas encerradas o avionetas de acuerdo con los requisitos de las Normas de Protección para Trabajadores (WPS) para pesticidas agrícolas (40 CFR 170.240 (d) (4-6)], los requisitos con respecto a los equipos de protección personal de esas personas pueden reducirse o modificarse como se especifica en esas normas.

Recomendaciones de seguridad para el usuario:

Los usuarios deben:

- · Lavarse las manos antes de comer, beber, masticar cicle, usar tabaco o usar el baño.
- · Quitarse la ropa contaminada y lavarla antes de volver a usarla.

3.2 Riesgos para el medio ambiente

No contamine el agua al lavar el equipo o al tirar el agua de lavado. El tratamiento de la maleza acuática puede causar disminución o pérdida de oxígeno debido a la descomposición de las plantas muertas. Esta pérdida de oxígeno puede sofocar a los peces.

En caso de DERRAME o PÉRDIDA, seque el producto y deseche en un relieno.

2.3 Riesgos Físicos o Químicos

Para mezclar, almacenar y aplicar la solución de rocío de este producto, se deben usar solamente envases de acero inoxidable, fibra de vidrio, plástico o envases de acero recubiertos internamente con plástico.

NO MEZCLE, ALMACENE O APLIQUE ESTE PRODUCTO O LAS SOLUCIONES DE ROCÍO DE ESTE PRODUCTO EN ENVASES DE ACERO GALVANIZADO O SIN REVESTIMIENTO (EXCEPTO ACERO INOXIDABLE) O EN TANQUES DE ROCÍO. Si se utiliza en estos envases o tanques, este producto o las soluciones de rocío de este producto reaccionan y producen gas hidrógeno que puede formar una mezcla de gases altamente inflamable. Esta mezcla de gases podría resultar inflamable o explotar y causar lesiones graves si está en contacto con fuego, chispas, sopletes para soldar, cigarrillos encendidos o cualquier otra fuente de ignición.

MODO DE EMPLEO

Se considera una violación a la ley federal usar este producto de una manera que no sea la indicada en la etiqueta. Este producto solo puede utilizarse de acuerdo con las instrucciones de modo de empleo que figuran en esta etiqueta, en etiquetas complementarias separadas o fichas técnicas publicadas por Monsanto. Puede consultar las etiquetas adicionales en Internet en www.cdms.net, www.agrian.com o www.greenbook.net, pero puede que su uson o esté aprobado en todos los estados. También puede solicitarlas a su vendedor minorista autorizado de Monsanto o a su representante de Monsanto Company.

No aplique este producto de alguna manera que entre en contacto con los trabajadores u otras personas, ya sea directamente o por arrastre. Solamente las personas que manipulan este producto y usan protección personal podrán estar en el área durante su aplicación. Para verificar requisitos específicos de su tribu o estado, consulte con la agencia responsable de la regulación del uso de pesticidas.

Requisitos para uso agrícola

Utilice este producto solo de acuerdo con la etiqueta y con las Normas de Protección para Trabajadores, 40 CFR Parte 170. Estas normas contienen los requisitos para la protección de trabajadores agrícolas en granjas, bosques, viveros e invernaderos y para las personas que manípulan pesticidas agrícolas. Contienen los requisitos para capacitar, descontaminar, notificar y ofrecer asistencia de emergencia. También contienen instrucciones específicas y excepciones relativas a las afirmaciones en esta etiqueta sobre equipos de protección personal (PPE) y los intervalos de acceso restringido. Los requisitos en esta caja se refieren solo a las aplicaciones de este producto cubiertas por las Normas de Protección para Trabajadores.

No entre ni permita la entrada de personal a las áreas tratadas durante el intervalo de entrada restringida (REI) de 4 horas.

Los equipos de protección personal (PPE) requeridos para el acceso anticipado a zonas tratadas que se permite en las Normas de Protección para Trabajadores y que significan contacto con material tratado, como plantas, tierra o agua, son: overoles, zapatos, calcetines y guantes resistentes a sustancias químicas confeccionados con cualquier tipo de material impermeable.

Requisitos para uso no agrícola

Los requisitos en esta caja se refieren a las aplicaciones de este producto que NO cubren las Normas de Protección para Trabajadores para pesticidas agrícolas (40 CFR, Parte 170). Las regulaciones del WPS se aplican cuando el producto se usa para obtener productos agrícolas en granjas, bosques, viveros e invernaderos.

Mantenga a las personas y a los animales domésticos fuera del área tratada hasta que la solución rociada se haya secado.

4.0 ALMACENAMIENTO Y ELIMINACIÓN

El almacenamiento y la eliminación adecuados de los pesticidas son fundamentales para evitar la exposición de las personas y el medio ambiente como consecuencia de pérdidas y derrames del producto, excedentes o desechos y actos de vandalismo. No permita que este producto contamine el agua, ni los alimentos para personas ni animales, ni las semillas, por medio del almacenamiento o la eliminación.

ALMACENAMIENTO DEL PESTICIDA: GUARDE A UNA TEMPERATURA SUPERIOR A LOS 5°F (-15°C) PARA EVITAR LA CRISTALIZACIÓN. Los cristales se depositarán en el fondo. Si se cristaliza, colóquelo en una habitación cálida a 68°F (20°C) por varios días para volver a disolver y haga rodar o agite el envase, o bien haga recircular en envases tipo mini-bulk para mezclar bien antes de usarlo. Guarde tos pesticidas lejos de los alimentos para personas, los alimentos para mascotas, los alimentos para manimales, las semillas, los fertilizantes y los materiales de uso veterinario. Mantenga el envase bien cerrado para evitar derrames y contaminación.

ELIMINACIÓN DEL PESTICIDA: Para evitar desechos, utilice todo el material contenido en este envase, incluido los residuos del enjuague, aplicándolo según las indicaciones de la etiqueta. Si no se pueden evitar los desechos, ofrezca el producto restante a un centro de eliminación de desechos o a un programa de desecho de pesticidas. Estos programas suelen ser manejados por los gobiernos estatales o locales o por la industria. Toda eliminación debe seguir los reglamentos y procedimientos federales, estatales y locales que apliquen.

MANEJO Y ELIMINACIÓN DEL ENVASE: Consulte la etiqueta del envase para las instrucciones de manejo y eliminación del envase, así como las limitaciones para rellenarlo.

5.0 INFORMACIÓN SOBRE EL PRODUCTO

Descripción del producto: Este producto es un herbicida sistémico de aplicación post emergencia foliar, sin actividad residual en el suelo. Controla un amplio espectro de malezas anuales, malezas perennes, matorrales leñosos y árboles. Está formulado como un líquido soluble en agua y se puede aplicar utilizando equipos convencionales después de su dilución y mezclado con agua o con otros medios de transporte según las instrucciones de la etiqueta.

Aparición de los síntomas: Este producto se mueve dentro de la planta desde el punto de aplicación sobre el follaje hasta las raíces. Los efectos visibles incluyen que la planta se marchite y se vuelva amarilla gradualmente, hasta que su parte exterior se pone completamente marrón; mientras tanto, las partes de la planta que están bajo tierra se deterioran completamente. Los efectos visibles en la mayoría de las malezas anuales se pueden apreciar de 2 a 4 días después de la aplicación, pero en la mayoría de las malezas perennes es posible que no se observen hasta después de 7 días o más. El frío extremo o el cielo muy nublado después de la aplicación pueden retardar la actividad del producto y hacer que el efecto visual se demore.

Etapas de malezas: Resulta más fácil controlar las malezas anuales cuando son pequeñas. La mayoría de las malezas perennes se controla mejor cuando el tratamiento se realiza en las últimas etapas de crecimiento antes de la madurez. Vea en las secciones TIPOS DE MALEZAS CONTROLADAS de esta etiqueta las proporciones específicas para cada tipo de maleza.

Aplique siempre la mayor proporción de producto dentro del rango indicado cuando las malezas son muy densas o cuando crecen en áreas no tocadas (no cultivadas). Puede haber una disminución de los resultados cuando se traten malezas afectadas por enfermedades o dañadas por los insectos, malezas cubiertas con mucho polvo o malezas en malas condiciones de crecimiento.

Modo de acción en las plantas: El ingrediente activo de este producto inhibe una enzima en las plantas y microorganismos que es esencial para la formación de aminoácidos específicos.

Prácticas culturales: Se podrá observar una reducción en el efecto si se aplica el producto a malezas anuales o perennes que hayan sido segadas, que hayan servido de alimento para animales o hayan sido cortadas, y que no hubiesen crecido nuevamente hasta el nivel recomendado para el tratamiento.

Resistencia a la lluvia: Una lluvia intensa poco tiempo después de su aplicación puede lavar este producto del follaje y puede requerirse una nueva aplicación para el control adecuado de las malezas.

Cobertura del rocío: Para obtener mejores resultados, la cobertura del rocío debe ser completa y uniforme. No rocíe el follaje hasta el punto de escurrimiento.

No actividad en el suelo: Las malezas deben haber emergido en el momento de la aplicación para poder ser controladas por este producto. Las malezas que germinen de semillas después de la aplicación no serán controladas. Las plantas no emergidas con rizomas o raíces subterráneas de malezas perennes no conectadas no se verán afectadas por el herbicida y continuarán creciendo.

Proporciones de aplicación máximas: Las proporciones de aplicación o uso máximas recomendadas en toda esta etiqueta se indican en unidades de volumen (orras líquidas o cuartos de galón) de este producto por acre. Sin embargo, las proporciones máximas permitidas se aplican a este producto combinado con todos y cada uno de los otros herbicidas que contienen el ingrediente activo glifosato, ya sea que se apliquen por separado o como mexclas de tanque, sobre la base de un total de gamos o libras de glifosato (equivalentes ácidos) por acre. Si se aplica más de un producto que contiene glifosato en el mismo terreno el mismo año, debe asegurarse de que el total de gifiosato empleado (equivalentes de gramos o libras de ácido) no exceda el máximo permitido L total combinado de todos los tratamientos no debe exceder 8 cuartos de galón de este producto (8 libras de ácido glifosato) por acre por año. Consulte en la sección INGREDIENTES de esta etiqueta la información necesaria sobre el producto.

ATENCIÓN

EVITE EL CONTACTO DEL HERBICIDA CON EL FOLLAJE, TALLOS VERDES, RAÍCES NO LEÑOSAS EXPUESTAS O FRUTOS EXPUESTOS DE LOS CULTIVOS, PLANTAS Y ÁRBOLES DESEABLES. EN CASO CONTRARIO ES PROBABLE QUE SUFRAN GRAVES DAÑOS O SEAN DESTRUIDOS TOTALMENTE.

EVITE EL ARRASTRE. TENGA MUCHO CUIDADO CUANDO APLIQUE ESTE PRODUCTO PARA EVITAR DAÑOS A PLANTAS Y CULTIVOS DESEABLES.

No permita que la solución herbicida se vaporice, gotee, arrastre o salpique sobre la vegetación desable ya que incluso cartidades infilmas de este producto pueden causar daños graves o destruir el cutitivo, plantas u otras áreas que no se desean tratar. Las probabilidades de daño causado por el uso de este producto aumentan cuando hay viento con ráfagas, cuando la velocidad del viento aumenta, cuando la dirección del viento cambia constantemente o cuando hay otras condiciones meteorológicas que favorecen el arrastre por rocío. Al rociar, evite las combinaciones de presión y fipo de boquillas que resulten en salpicaduras o partículas finas (niebla) que es probable que se dispersen. EVITE APLICAR A UNA VELOCIDAD O PRESIÓN EXCESIVA.

NOTA: El uso de este producto de cualquier manera contraria a las indicaciones contenidas en esta etiqueta, puede resultar en lesiones a personas, animales o cultivos o pueden ocurrir otras consecuencias no deseadas.

5.1 Manejo de resistencia de malezas

GROUP 9 HERBICIDE

El glifosato, ingrediente activo en este producto, es un herbicida del Grupo 9 basado en el sistema de clasificación de efecto de Weed Science Society (La Asociación de la Ciencia de la Maleza) de los Estados Unidos. Todas las poblaciones de malezas pueden contener plantas naturalmente resistentes a los herbicidas del Grupo 9. Las especies de malezas resistentes a los herbicidas del Grupo 9 pueden tratarse con buenos resultados utilizando otro herbicida de un Grupo diferente o adoctando otras prácticas de cultivo o mecânicas.

Para reducir al mínimo la incidencia de biotipos resistentes al glifosato, respete las siguientes recomendaciones generales con respecto al manejo de malezas:

- Haga un reconocimiento del sitio de la aplicación antes y después de haber aplicado herbicidas.
- Controle las malezas cuanto antes, cuando sean todavía relativamente pequeñas.
- Incorpore otros herbicidas y prácticas de cultivo o mecánicas como parte de su sistema de control de malezas cuando sea adecuado.
- Utilice la proporción indicada en la etiqueta para las malezas más difíciles de controlar en el sitio. Evite las mezclas de tanque con otros herbicidas que reducen la eficacia de este producto (por antagonismo) o las recomendaciones de mezclas de tanque que alientan la utilización de cantidades de este producto inferiores a las recomendaciones de esta etiqueta.
- Controle las malezas omitidas e impida que echen semilla.
- Limpie los equipos antes de trasladarse de un sitio a otro para reducir al mínimo la propagación de semillas de malezas.
- Utilice semillas comerciales nuevas con la menor cantidad posible de semillas de malezas.
- Informe todo incidente por falta de rendimiento reiterado de este producto en una maleza determinada al representante de Monsanto, vendedor minorista de su localidad o agente de extensión del condado.

5.2 Manejo para biotipos resistentes al glifosato

NOTA: Es fundamental realizar las pruebas adecuadas para confirmar la resistencia de la maleza al gifiosato. Póngase en contacto con su representante de Monsanto para determinar si se confirmó la resistencia de algún biotipo de maleza en particular en su región. Las recomendaciones de control para biotipos confirmados como resistentes al gifiosato se dan a conocer con la publicación de etiquetas o fichas técnicas complementarias para este producto y puede solicitarlas al vendedor minorista o a su representante de Monsanto.

Debido a que no es posible determinar la existencia de nuevas malezas resistentes al giflosato hasta que se haya utilizado el producto y se cuente con la confirmación cientifica correspondiente, Monsanto Company no será responsable de ninguna pérdida que pudiera tener lugar en el caso de que este producto no lograra controlar de forma eficaz los biotipos de malezas resistentes al giffosatio.

Siga las siguientes prácticas correctas de manejo de malezas para reducir la propagación de biotipos resistentes al gifosato confirmados:

- Si en su zona existe naturalmente un biotipo resistente, para lograr su control puede mezclar este producto en un tanque o aplicarlo secuencialmente con un herbicida debidamente aprobado con efecto diferente.
- También se pueden utilizar prácticas de control culturales y mecánicas según corresponda.
- corresponda.

 Haga un reconocimiento de los lugares tratados después de las aplicaciones de herbicida y controle las omisiones de biotipos resistentes antes de que echen semilla.
- Limple minuciosamente los equipos antes de abandonar los lugares que se saben que contienen biotipos resistentes.

6.0 MEZCLA

Para mezclar, almacenar y aplicar la solución de rocío de este producto, se deben usar solamente envases de acero inoxidable, fibra de vidrio, plástico o envases de acero recubiertos internamente con plástico.

NO MEZCLE, ALMACENE O APLIQUE ESTE PRODUCTO O LAS SOLUCIONES DE ROCÍO DE ESTE PRODUCTO EN ENVASES DE ACERO GALVANIZADO O SIN REVESTIMIENTO (EXCEPTO ACERO INOXIDABLE) O EN TANOLES DE ROCÍO.

Proceda con precaución para evitar el retorno del líquido a la fuente de transporte. Utilice aparatos aprobados contra el retorno en lugares donde lo exijan las normas locales o extatales

Limpie las piezas del rociador inmediatamente después de usar este producto lavándolas bien con agua.

NOTA: EL RENDIMIENTO DEL PRODUCTO PODRÍA REDUCIRSE SI SE UTILIZA AGUA CON SEDIMENTOS DE TIERRA COMO SUSTANCIA PORTADORA O AGUA CON BARRO VISIBLE O AGUA DE ESTANQUES O ACEQUIAS QUE NO ESTÉ CLARA.

6.1 Mezcla con agua

Este producto se mezcia fácilmente con agua. Mezcie las soluciones de rocío de este producto de la siguiente manera: Ponga la cantidad correcta de agua limpia en el tanque en el cual se va a preparar la mezcla. Agregue la cantidad recomendada de este producto cuando ya está cerca de completarse el llenado con agua y mezcle con cuidado (bien). Durante la mezcla y aplicación, se puede formar espuma en la solución de rocío. Para prevenir o minimizar la formación de espuma, evite el uso de agitadores mecánicos, cierre las tuberías de retorno y de paso en la parte posterior del tanque y, en caso de que sea necesario, utilice un agente aprobado anti espuma o que elimine la espuma.

6.2 Mezclas de tanque

Este producto no proporciona control de malezas residuales. Este producto puede mezclarse en tanques con otros herbicidas para proporcionar control residual contra malezas, un espectro más amplio de control de malezas o un modo de acción alternativo. Siempre lea y siga las instrucciones de la etiqueta para todos los productos en la mezcla de tenene.

Cuando utilice este producto mezclado en tanque con otros, consulte las etiquetas de cada producto para los sitios y proporciones de aplicación aprobados. Lea y siga cuidadosamente las indicaciones y toda la información en las etiquetas de todos los herbicidas utilizados. Use conforme a las declaraciones preventivas más restrictivas de cada producto en la mezcla. Para la mezcla en tanque, puede utilizarse cualquier proporción de este producto que se encuentre dentro del rango indicado en la etiqueta.

Cuando esta etiqueta indique una mezcla de tanque con un ingrediente activo genérico como diurón, 2,4-D o dicamba, el usuario será responsable de asegurarse de que la etiqueta del producto de mezcla permita la aplicación específica.

El comprador y todos los usuarios son responsables por todas las pérdidas o daños en relación con el uso o el manejo de mezclas de este producto con herbicidas u otros materiales que no se recomiendan expresamente en esta etiqueta. La mezcla de este producto con herbicidas u otros materiales no recomendados en esta etiqueta puede dar como resultado una reducción en su rendimiento.

Este producto brinda control de las malezas emergidas indicadas en esta etiqueta. Cuando se aplican como mezcla de tanque, los herbicidas siguientes proporcionan control pre emergencia y/o post emergencia de las malezas indicadas en las etiquetas de los productos individuales.

Este producto puede ser mezclado en el tanque con los productos-siguientes. Cualquier proporción de este producto que se encuentre dentro del rango recomendado en la etiqueta se puede utilizar en una mezcla de tanque con estos productos. El usuario será responsable de asegurarse de que el producto específico esté aprobado para el área de uso deseada. Consulte las etiquetas de estos productos para informarse sobre las áreas de uso y las proporciones de aplicación aprobadas. Lea y siga cuidadosamente las indicaciones y toda la información en las etiquetas de todos los herbicidas utilizados. Use conforme a las declaraciones preventivas más restrictivas de cada producto en la mezcla.

Productos de mezcla de tanque

Arsenal	Krovar DF $+$ 2,4-D
Banvel	Krovar I DF + Garlon 3A
2,4-D	Krovar I DF + Garlon 4
Garlon 3A	Oust XP
Garlon 4	Oust XP + 2,4-D
diuron	Oust XP + Garlon 3A
diuron + 2,4-D	Oust XP + Garlon 4
diuron + Garlon 3A	Ronstar
diuron + Garlon 4	Spike 80W
Hyvar X	Spike 80W + 2,4-D
Hyvar X + 2,4-D	Spike 80W + Garlon 3A
Hyvar X + Garlon 3A	Spike 80W + Garlon 4
Hyvar X + Garlon 4	Surflan
Krovar I DF	

Cuando se usa en combinación según las recomendaciones de Monsanto Company, de ninguna manera la responsabilidad de Monsanto abarcará cualquier daño, pérdida o lesión que no sea causado directa y exclusivamente por la inclusión del producto de Monsanto en dicha aplicación combinada.

6.3 Procedimiento de mezcla de tanque

Cuando prepare mezclas de tanque, lea y siga cuidadosamente las instrucciones de la etiqueta, las declaraciones preventivas y toda la información contenida en las etiquetas de todos los productos utilizados. Agregue el producto al tanque de mezcla según las instrucciones de la etiqueta. Agite continuamente y agregue la cantidad recomendada de este producto.

Continúe agitando bien todo el tiempo durante el proceso de mezclado. Asegúrese de que los productos de la mezcla de tanque estén bien mezclados con la solución de rocío antes de agregar este producto.

Mezcle solo la cantidad de solución de rocío que puede usar el mismo día. El control de malezas puede ser inferior si las mezclas de tanque se dejan reposar toda la noche.

Continúe agitando bien todo el tiempo hasta que termine de rociar todo el contenido del tanque. Si se deja asentar la mezcla para rociar, agite bien para que la mezcla vuelva a estar en suspensión antes de continuar con el rocío.

A fin de minimizar la formación de espuma, mantenga las tuberías de retorno lo más cerca del fondo del tanque. La malla de la rejilla en la boquilla o en los coladores de las mangueras no debe ser de menos de 50 hilos.

Siempre determine con anticipación la compatibilidad de todos los productos de la mezcla de tanque indicados con el agua como sustancia portadora, mezclando antes pequeñas cantidades proporcionales. Asegúrese de que la mezcla de tanque específica esté aprobada para su aplicación en el área deseada.

6.4 Mezcla de soluciones en porcentaje

Prepare el volumen deseado de solución de rocío mezclando en agua la cantidad indicada de este producto, como se indica en la siguiente tabla:

Solución de rocío

Volumen	Can	tidad de Rour	ndup Custo	m para uso a	cuático y t	errestre
Deseado	0.5%	0.75%	1%	1.5%	4%	8%
1 gal	2/3 oz	1 oz	1.3 oz	2 oz	5 oz	10 oz
25 gal	1 pt	1.5 pt	1 qt	1.5 qt	4 qt	2 gal
100 gal	2 qt	3 qt	1 gal	1.5 gal	4 gal	8 gal
	20	cucharadas s	operas =	1 onza líquio	la	

Cuando se usen rociadores tipo mochila, o para bombeo, se recomienda que la cantidad indicada en la etiqueta de este producto se mezcle con agua en un envase grande. Llene el rociador con la solución de la mezcla.

6.5 Surfactante

Este producto requiere el uso de un surfactante no iónico a menos que se especifique lo contrario. Al usar este producto, a menos que se especifique lo contrario, mezcle 2 o más cuartos de galón de un surfactante no iónico por cada 100 galones de solución de rocio. Aumentar la proporción de surfactante puede mejorar el rendimiento. Algunos ejemplos de cuándo usar una proporción mayor de surfactante incluyen, pero no se limitan a: matorrales leñosos difíciles de controlar, árboles y enredaderas, volúmenes de mareas altas, condiciones ambientales adversas, malezas difíciles de controlar, malezas bajo estrés, surfactantes con menos de un 70 por ciento de ingrediente activo, mezclas de tanque, etc.

Siempre lea y siga las instrucciones de la etiqueta del fabricante del surfactante para obtener los mejores resultados. Cumpla cuidadosamente con todas las declaraciones preventivas y toda la información adicional que aparezca en la etiqueta del surfactante.

6.6 Colorantes o tinturas

A este producto se le pueden agregar colorantes o tinturas para marcar, que sean aprobados para uso agrícola. A bajas concentraciones o diluciones, los colorantes o tinturas usados en las soluciones de rocío de este producto pueden reducir su rendimiento. Utilice los colorantes o las tinturas según las instrucciones del fabricante.

6.7 Aditivos de reducción de arrastre

Se pueden utilizar aditivos para el control del arrastre en todos los tipos de equipo, a excepción de aplicadores con enjugador y barras de esponja. Cuando se use un aditivo para el control del arrastre, lea y cumpla cuidadosamente con las declaraciones preventivas y toda la información adicional que aparezca en la etiqueta del aditivo. El uso de aditivos para el control del arrastre puede afectar la cobertura del rocio, lo que puede dar como resultado una reducción en el rendimiento.

7.0 EQUIPOS Y TÉCNICAS PARA LA APLICACIÓN

No use ningún sistema de irrigación para aplicar este producto.

APLIQUE ESTAS SOLUCIONES DE ROCÍO UTILIZANDO EQUIPOS DEBIDAMENTE MANTENIDOS Y CALIBRADOS QUE SEAN CAPACES DE ROCIAR EL VOLUMEN DESEADO.

MANEJO DEL ARRASTRE DEL ROCÍO

EVITE EL ARRASTRE. TENGA MUCHO CUIDADO CUANDO APLIQUE ESTE PRODUCTO PARA EVITAR DAÑOS A PLANTAS Y CULTIVOS DESEABLES.

No permita que la solución herbicida se vaporice, gotee, arrastre o salpique sobre la vegetación deseable ya que incluso cantidades ínfimas de este producto pueden causar daños graves o destruir el cultivo, plantas u otras áreas que no se desean tratar.

Es responsabilidad del aplicador evitar el arrastre por rocío en el lugar de aplicación. La interacción de varios factores relacionados con el clima y el equipo determina la posibilidad de arrastre por rocío. El aplicador y/o el cultivador son responsables de considerar todos estos factores el tomar decisiones.

7.1 Equipos aéreos

NO APLIQUE ESTE PRODUCTO CON EQUIPOS AÉREOS EXCEPTO BAJO LAS CONDICIONES QUE SE ESPECIFICAN EN ESTA ETIQUETA.

EN CASO DE APLICACIÓN AÉREA EN ARKANSAS Y CALIFORNIA, O EN CONDADOS ESPECÍFICOS DE ESOS ESTADOS, CONSULTE EN LA ETIQUETA COMPLEMENTARIA FEDERAL LAS INSTRUCCIONES, RESTRICCIONES Y REQUISITOS ESPECÍFICOS PARA APLICACIONES AÉREAS EN ESE ESTADO O CONDADO.

Este producto, al ser mezclado en tanques con dicamba, no se puede aplicar por aire en el estado de California. Solo se pueden utilizar formulaciones de 2,4-D amina para la aplicación aérea en California.

Use las proporciones recomendadas de este producto en 3 a 25 galones de agua por acre. PARA EVITAR DAÑAR LA VEGETACIÓN DESEABLE ADYACENTE, SE DEBEN MANTENER ZONAS DE TRANSICIÓN ADECUADAS.

Evite la aplicación directa en masas de agua. Pueden usarse aditivos para el control del arrastre. Al utilizar un aditivo para controlar el arrastre, lea y cumpla meticulosamente con las declaraciones preventivas y toda la demás información que aparece en la etiqueta del aditivo.

Asegúrese de que la aplicación sea uniforme. A fin de evitar que queden áreas sin tratar, que la aplicación no sea uniforme o que las aplicaciones se traslapen, se deben usar marcadores adecuados.

Mantenimiento de aviones

EL CONTACTO PROLONGADO DE ESTE PRODUCTO CON PARTES DE ACERO QUE NO ESTE RECUBIERTO CON ALGUN TIPO DE PROTECCIÓN, PUEDE CAUSAR CORROSIÓN Y POSIBLEMENTE QUE LAS PARTES FALLEN. Es posible prevenir la corrosión recubriendo las partes con pintura orgánica, que cumpla con las especificaciones aeroespaciales MIL-C-38413. Al final de cada día de trabajo, para evitar la corrosión de las partes expuestas, lave muy bien el evión a fin de remover los residuos de este producto que se acumulan durante el rocío o por derramamientos. El tren de aterrizaje es extremadamente susceptible.

MANEJO DEL ARRASTRE DEL ROCÍO AEREO

Deben seguirse los siguientes requisitos de manejo del arrastre para evitar el movimiento de éste fuera del objetivo en aplicaciones aéreas a campos de cultivo agrícola. Estos requisitos no incluyen las aplicaciones forestales ni los usos en salud pública.

- La distancia de la boquilla más externa en el brazo no debe exceder 3/4 del largo de la envergadura o rotor.
- Las boquillas deben siempre apuntar hacia atrás, paralelas a la corriente de aire, nunca hacia abajo más de 45 grados. En los estados con reglamentos más estrictos, éstos deben observarse.

Importancia del tamaño de las gotas

La forma más eficaz de reducir la posibilidad de arrastre es la aplicación de gotitas grandes. La mejor estrategia de manejo del arrastre es la aplicación de las gotitas más grandes que provean suficiente cobertura y control. La aplicación de gotitas más grandes reduce la posibilidad de arrastre, pero no la evitará si las aplicaciones se realizan inadecuadamente o bajo condiciones ambientales desfavorables (vea las secciones de Viento, Temperatura y humedad, e Inversiones de temperatura en esta etiqueta).

Control del tamaño de las gotas

Volumen: Use boquillas de velocidad de flujo alta para aplicar el mayor volumen de rocío práctico. Las boquillas con mayores velocidades de flujo producen gotitas más grandes.

Presión: Use las presiones de rocío más bajas recomendadas para la boquilla. La presión más alta reduce el tamaño de la gotita y no mejora la penetración de la superficie. Cuando sean necesarias velocidades de flujo mayores, use boquillas con velocidad de flujo mayor en lugar de aumentar la presión.

Cantidad de boquillas: Utilice la cantidad mínima de boquillas que brinden una cobertura uniforme.

Orientación de las boquillas: Si orienta las boquillas de modo que liberen el rocío hacia atrás, en sentido paralelo a la circulación del aire, producirán gotas más grandes que si las orienta de otro modo. Cuanto más desviadas estén del plano horizontal, tanto más pequeñas serán las gotas y tanto mayor el potencial de arrastre.

Tipo de boquilla: Utilice un tipo de boquilla diseñado para la aplicación deseada. Con la mayoría de los tipos de boquillas, cuanto menor sea el ángulo de rocio tanto mayor serán las gotas. Considere el uso de boquillas de poco arrastre. Las boquillas de caudal directo orientadas directamente hacia atrás producen gotas más grandes que otros tipos de boquillas.

Longitud del brazo: En algunos esquemas de uso, la reducción de la longitud efectiva del brazo a menos de 3/4 de la envergadura o de la longitud del rotor puede reducir el arrastre aún más sin reducir el ancho de la franja.

Altura de la aplicación: Las aplicaciones no deben realizarse a una altura mayor que 10 pies por encima de la copa de las plantas más grandes, a menos que se requiera mayor altura por razones de seguridad del aeroplano. Realizar las aplicaciones a la menor altura que sea segura reduce la exposición de las gotitas a la evaporación y el viento.

Ajuste de franja

Cuando las aplicaciones se lleven a cabo con viento lateral, la franja de aspersión se desplazará a favor del viento. Por ello, en los extremos con o contra el viento del campo, el aplicador debe compensar este desplazamiento ajustando la trayectoria del aeroplano contraria al viento. La distancia de ajuste de la franja debe aumentar, cuando aumenta la posibilidad de arrastre (mayor viento, gotitas más pequeñas, etc.).

Viento

El potencial de arrastre es menor cuando la velocidad del viento es de 2 a 10 millas por hora. Sin embargo, muchos factores, incluyendo el tamaño de las gotitas y el tipo de equipo determinan la posibilidad de arrastre a una velocidad determinada. Se debe evitar la aplicación a menos de 2 millas por hora debido a los cambios de dirección del viento y la posibilidad de inversión. NOTA: El terreno local puede influir en los patrones de viento. Las personas que aplican el producto deben estar familiarizadas con los modelos locales de vientos y saber cómo afectan el arrastre.

Temperatura y humedad

Cuando se realizan aplicaciones con humedad relativa baja, fije el equipo para que produzca gotitas más grandes para compensar por la evaporación. La evaporación de gotitas es más grave cuando las condiciones son calurosas y secas.

Inversiones de temperatura

No deben realizarse aplicaciones durante una inversión de temperatura debido a que la posibilidad de arrastre es alta. Las inversiones de temperatura restringen la mezcla de aire vertical, lo que causa que pequeñas gotitas suspendidas permanezcan en una nube concentrada. Esta nube puede moverse en direcciones no predecibles debido a los vientos variables leves que son comunes durante las inversiones. Las inversiones de temperatura están caracterizadas por temperaturas en aumento con altitud y son comunes en las noches con cobertura de nubes limitada y poco o ningún viento. Comienzan a formarse cuando se mete el sol y a menudo continúan en la mañana. Su presencia puede indicarse por neblina en el suelo; sin embargo, si la neblina no está presente, las inversiones también pueden identificarse por el movimiento del humo desde una fuente del suelo o por el generador de humo de un aeroplano. El humo en capas que se mueve lateralmente en una nube concentrada (bajo condiciones de poco viento) indica una inversión, mientras que el humo que se mueve hacia arriba y se disipa rápidamente indica buena mezcla de aire vertical.

Áreas sensibles

Este producto solo se debe aplicar cuando la posibilidad de arrastre hacia zonas adyacentes susceptibles (como por ejemplo, áreas residenciales, masas de agua, hábitat conocido de especies amenazadas o en peligro de extinción, cultivos que no sean el objetivo) sea mínima (como por ejemplo, cuando el viento sople lejos de las áreas susceptibles).

7.2 Equipo de aplicación al voleo terrestre

Para aplicaciones al voleo terrestre, a menos que se indique lo contrario en esta etiqueta, en etiquetas complementarias separadas o en las Fichas Técnicas publicadas por Monsanto, use este producto en una proporción de 1.5 a 3 pintas por acre para malezas anuales, de 3 a 7.5 pintas para malezas perennes y de 3 a 7.5 pintas por acre para matorrales leñosos y árboles. Cuando se usa de acuerdo con las instrucciones de la etiqueta, este producto brinda control total o parcial de las malezas herbáceas, matorrales leñosos y árboles mencionados en la sección TIPOS DE MALEZAS CONTROLADAS de esta etiqueta.

Use las proporciones indicadas en la etiqueta de este producto con 3 a 40 galones de agua por acre para aplicaciones al voleo, a menos que se especifique de otra manera en esta etiqueta, en etiquetas complementarias separadas o en las Fichas Técnicas publicadas por Monsanto. A medida que la densidad de las malezas aumenta, el volumen de rocío se debe aumentar también para conseguir una cobertura completa, pero siempre dentro de los límites recomendados. A fin de evitar una niebla muy fina, seleccione la boquilla cuidadosamente. Para obtener mejores resultados con equipo a

nivel del terreno, use boquillas tipo abanico plano. Asegúrese de que las gotas del rocío se distribuyan uniformemente.

7.3 Equipo de mano

Aplique al follaje de la vegetación a ser controlada. En aplicaciones de rocío para mojar, la cobertura del rocío debe ser completa y uniforme. No rocíe hasta el punto de escurrimiento. Utilizar sólo rociadores gruesos.

Para el control de las malezas enumeradas en la sección de Malezas anuales de la sección TIPOS DE MALEZAS CONTROLADAS, aplique una solución al 0.5 por ciento de este producto a las malezas de menos de 6 pulgadas de altura o largo de los tallos. Para malezas anuales de más de 6 pulgadas de altura utilice una solución al 1 por ciento, a menos que se específique de otro modo. Haga la aplicación antes de la formación de semillas para el pasto, o la formación de brotes para las malezas de hoja ancha.

Para obtener los mejores resultados, utilice una solución al 1.5 por ciento en plantas perennes más difíciles de controlar, enredaderas leñosas, arbustos y árboles. Para obtener mejores resultados, realice aplicaciones en plantas perennes después de la emergencia de las semillas en pastos o la formación de brotes en las malezas de hoja ancha, matorrales leñosos y árboles.

En aplicaciones de rocío dirigido de bajo volumen, use una solución del 4 al 8 por ciento de este producto para el control total o parcial de malezas anuales, malezas perennes o matorrales leñosos y árboles. La cobertura del rocío debe ser uniforme y hacer contacto con al menos el 50 al 75 por ciento del foliaje. Es importante lograr la cobertura de la mitad superior de la planta para lograr los mejores resultados. Si se utiliza una boquilla de caudal directo, comience la aplicación en la parte superior de la vegetación que sea el objetivo, y rocía de arriba hacia abajo con un movimiento de zigzag lateral. Para boquillas cónicas y tipo abanico plano, y con sopladores de vaporización manuales, aplique la niebla sobre el foliaje de la vegetación que sea el objetivo. Para asegurar una cobertura de rocío adecuada, rocía ambos lados de los matorrales leñosos y de los árboles grandes o altos cuando el foliaje es espeso y denso o cuando hay varios rebrotes. Para ottener resultados óptimos, aplique este producto a árboles y matorrales leñosos en crecimiento activo después de la expansión completa de las hojas y antes de que éstas adquieran color otional y se caigan.

Salvo que se especifique lo contrario, use las proporciones indicadas en la tabla siguiente para diversos métodos de aplicación foliar usando equipo de mano de alto volumen, tipo mochila y similares. Cuando se usa de acuerdo con las instrucciones de la etiqueta, este producto brinda control total o parcial de las malezas herbáceas, matorrales leñosos y árboles mencionados en la sección TIPOS DE MALEZAS CONTROLADAS de esta etíqueta.

PROPORCIONES DE APLICACIÓN

APLICACIÓN		VOLUMEN DE ROCÍO Galones/Acre
ROCIO PARA MOJAR Pistola de mano o mochila	0.5 a 1.5% por volumen	rocio para mojar*
ROCÍO DIRIGIDO DE BAJO V	OLUMEN	
Mochila	4 a 8% por volumen	15 a 25**
Alto volumen modificado	1.5 a 3% por volumen	40 a 60**

^{*} En aplicaciones de rocío para mojar, la cobertura del rocío debe ser completa y uniforme. No rocíe hasta el punto de escurrimiento.

7.4 Equipo selectivo

Este producto puede ser diluido con agua, mezclado bien y aplicado usando rociadores de recirculación, aplicadores con pantalla, rociadores con capucha, aplicadores con enjugador o barras de esponja, sobre las malezas indicadas que crecen en cualquier zona acuática o lugar no cultivado indicado en esta etiqueta.

Los rociadores de recirculación dirigen la solución de rocío hacia los tipos de malezas que crecen sobre vegetación deseable, mientras que la solución de rocío que no ha sido interceptada por las malezas se recoge y retorna al tanque para volverla a usar.

EVITE EL CONTACTO DE ESTE HERBICIDA CON LA VEGETACIÓN DESEABLE, YA QUE ES PROBABLE QUE OCURRA DAÑO GRAVE O MUERTE DE LA VEGETACIÓN.

El equipo de aplicación que se utilice por encima de la vegetación deseable debe ajustarse de manera que el chorro de rocio o punto de contacto del enjugador esté al menos 2 pulgadas por encima de la vegetación deseable. Es probable que las gotas, niebla, espuma o salpicaduras de la solución de herbicida sobre la vegetación deseable provoquen decoloración, atrofia o destrucción.

Se pueden obtener mejores resultados cuando se expone una mayor cantidad de la maleza a la solución de herbicida. Las malezas sin contacto con la solución de herbicida no serán afectadas. Esto puede ocurrir en lugares donde las malezas están muy concentradas, cuando la infestación es grave o donde la altura de las malezas es variada, lo que no permite que todas sean tocadas por el herbicida. En estos casos puede ser necesario repetir el tratamiento.

Aplicadores con pantalla y con capucha

Los aplicadores con pantalla o con capucha aplican la solución de herbicida directamente sobre las malezas, al mismo tiempo que protegen la vegetación deseable, para que no sea tocada por el herbicida. Use boquillas que aseguren una cobertura uniforme en toda el área tratada. En los rociadores con pantalla, mantenga las pantallas debidamente colocadas a fin de proteger la vegetación deseada. DEBE TENER SUMO CUIDADO PARA EVITAR EL CONTACTO DE ESTE HERBICIDA CON LA VEGETACIÓN DESEABLE.

Aplicadores con enjugador y barras de esponja

Los aplicadores con enjugador son dispositivos que pasan físicamente este producto directamente a la maleza.

El equipo debe ser diseñado, mantenido y operado de manera que la solución de herbicida no haga contacto con la vegetación deseable. Opere este equipo a velocidades inferiores a las 5 millas por hora. En áreas donde la infestación de malezas es grave, se puede mejorar la eficacia reduciendo la velocidad, así se asegura que el enjugador esté siempre adecuadamente saturado. Se obtienen mejores resultados si hacen 2 aplicaciones en direcciones opuestas.

Evite las filtraciones o el goteo en la vegetación deseable. Ajuste la altura de los aplicadores a fin de asegurar un contacto adecuado con las malezas. Mantenga limpias las superficies de enjugado. Tenga en cuenta que, en terreno en declive, la solución de herbicida puede cambiar de lugar, goteando en el extremo inferior y secando las mechas en el extremo superior del aplicador con enjugador.

No use aplicadores con enjugador cuando las malezas estén mojadas.

Mezcle solamente la cantidad de solución que se usará durante el período de un día, debido a que el uso de soluciones de días anteriores puede reducir la eficacia. Inmediatamente después de usar este producto, lave bien las partes del aplicador usando bastante aeua.

Se recomienda surfactante no iónico en una proporción del 10 por ciento por volumen de la solución total de herbicida para todas las aplicaciones con enjugador.

Para aplicadores de cordón o de mecha de esponja — Pueden emplearse soluciones que oscilen entre 33 al 75 por ciento de este producto en agua.

Para aplicadores de panel — Pueden emplearse soluciones que oscilen entre 33 al 100 por ciento de este producto en agua en aplicadores con enjugador de papel.

7.5 Sistemas por inyección

Este producto puede usarse con sistemas de rocío por inyección, ya sean aéreos o a nivel del terreno. Puede usarse como concentrado líquido o diluido antes de la inyección en el chorro de rocío. No mezcle este producto con concentraciones de otros productos sin diluir cuando use los sistemas por inyección, a menos que se recomiende de manera específica

7.6 Equipo de aplicación por goteo controlado (CDA)

La proporción de este producto aplicada por acre con el equipo de aplicación por goteo controlado (CDA) no debe ser menos que la cantidad indicada en esta etiqueta cuando se aplica con un equipo al voleo convencional. Cuando se usa el equipo aplicador por goteo controlado montado en un vehículo, use de 2 a 15 galones de agua por acre.

Para controlar malezas anuales con aplicadores por goteo controlado de mano — Aplique una solución de este producto al 15 por ciento (19.25 oz de producto por galón) a razón de 2 onzas líquidas por minuto y una velocidad de caminata de 1.5 millas por hora (1 cuarto de galón por acre). Para controlar malezas perennes, aplique una solución de este producto de 15 a 30 por ciento a razón de 2 onzas líquidas por minuto y una velocidad de caminata de 0.75 milla por hora (2 a 4 cuartos de galón por acre).

Los equipos de CDA producen un patrón de rocío que es difícil de ver. Se debe tener especial cuidado para evitar que el rocío o el arrastre entre en contacto con el follaje o cualquier otra parte verde de la vegetación deseable, ya que en caso contrario, es probable que ésta sea dañada o destruida.

8.0 RECOMENDACIONES SEGÚN ÁREAS Y USO

Este producto se puede usar para controlar las malezas, los matorrales leñosos y árboles en zonas acuáticas, lugares no cultivados y cultivados mencionados en esta etiqueta.

Los lugares no cultivados incluyen aeropuertos, complejos de viviendas, centros comerciales, acequias, acequias secas, canales secos, cercas, bosques, campos de golf, áreas de restauración y manejo de hábitats, terrenos industriales, depósitos de madera, zonas de manufactura, solares municipales, zonas naturales, complejos de oficinas, áreas públicas, parques, áreas de estacionamiento, pasturas, zonas con tanques de petrideo e instalaciones de bombeo, vías de ferrocarril, tierras de pastoreo, áreas recreativas, áreas residenciales, bordes de carreteras, escuelas, áreas de almacenamiento, subestaciones, derechos de paso de servicios públicos, zonas de servicios públicos, zonas de almacenes y zonas de manejo de vida silvestre.

Cultivos incluye cítricos, caña de azúcar, césped, tepes y barbecho vegetal.

A menos que se especifique de otra manera en esta etiqueta, en etiquetas complementarias separadas o en las Fichas Técnicas publicadas por Monsanto, pueden realizarse aplicaciones para controlar cualquier maleza indicada en las tablas de proporciones de Malezas anuales, Malezas perennes, Matorrales leñosos y árboles. Consulte también la sección sobre Equipo selectivo.

Q.1 Zonas acuáticas

Este producto se puede aplicar a malezas emergidas en todas las masas de agua fresca o salobre, que pueden ser fluyentes, no fluyentes o intermedias. Esto incluye lagos, ríos, arroyos, estanques, estuarios, diques de arroz, filtraciones, acequias de irrigación y drenaje, canales, embalses, instalaciones de tratamiento de aguas residuales, zonas de restauración y manejo de hábitats de vida silvestre.

Si hay zonas acuáticas en el área y éstas son parte del tratamiento deseado, lea y siga estas instrucciones:

^{**}Las aplicaciones con mochila de rocío dirigido de bajo volumen funcionan mejor para tratar malezas y matorrales de menos de 10 pies de altura. Para malezas y matorrales más altos, las pistolas de mano de alto volumen se pueden modificar reduciendo el tamaño de la boquilla y la presión del rocío para producir un rocío dirigido de bajo volumen.

Este producto no proporciona control de plantas completamente sumergidas o que tengan la mayor parte de su follaje bajo agua.

No hay restricciones sobre el uso de agua tratada con propósitos domésticos, de irrigación o recreación.

Consulte su agencia local de caza y pesca y las autoridades de control de aguas antes de aplicar el producto en aguas públicas. Pueden requerirse permisos para tratar estas aguas.

NOTA: No aplique este producto directamente al agua dentro de 0.5 millas aguas arriba de una entrada activa de agua potable en agua fluyente (ej., río, arroyo, etc.) o dentro de 0.5 millas aguas arriba de una entrada de agua potable en una masa de agua estancada como un lago, estanque o embalse. Para hacer aplicaciones acuáticas alrededor y dentro de 0.5 millas de las entradas activas de agua potable, hay que cerrar la entrada de agua por un período mínimo de 48 horas después de la aplicación. La entrada de agua puede abrirse antes de las 48 horas si el nivel de glifosato en el agua de entrada es menos de 0.7 partes por millón según se determine por análisis de laboratorio. Estas aplicaciones acuáticas SOLAMENTE pueden hacerse si existen fuentes de agua salternas o estanques de retención que permitan el cierre de una entrada activa de agua potable por un período mínimo de 48 horas después de la aplicación. Esta restricción NO aplica al rocío excesivo intermitente e involuntario de agua en aplicaciones terrestres.

Para aplicaciones después de interrumpir el suministro de agua o en acequias secas, espere 7 días o más después del tratamiento antes de restaurar el agua para obtener un control máximo de las malezas. Aplique este producto 1 día después de interrumpir el suministro de agua para asegurar la aplicación en las malezas con crecimiento activo.

Puede ser necesario repetir las aplicaciones en las masas flotantes de vegetación. Evite que la lluvia o la estela de barcos fumigadores o recreativos laven el follaje tratado hasta después de 6 horas de la aplicación. No repita la aplicación antes de 24 horas de la aplicación inicial.

La aplicación a masas de agua en movimiento deberá hacerse mientras se viaja corriente arriba para evitar la concentración de este herbicida en el agua. Al hacer aplicaciones en las riberas, no traslage más de 1 pie en aguas ablertas. No rocíe en masas de agua donde no existan malezas. No se puede exceder la proporción máxima de aplicación de 7.5 pintas por acre en una aplicación al voleo sobre agua, con las siguientes excepciones, donde se puede aplicar cualquier cantidad indicada en la etiqueta:

- · Cruces de arroyos en servidumbres de servicios públicos.
- Si las aplicaciones se limitan a menos del 20 por ciento del área total de agua tratada.

Cuando las infestaciones emergidas requieren tratamiento de la superficie total del agua embalsada, hacer las aplicaciones por franjas puede evitar la disminución de oxígeno debido a la descomposición de la vegetación. La disminución de oxígeno puede causar la muerte de los peces.

Para controlar el cordgrass (espartina)

La presencia de desechos y cieno en la superficie de las plantas de cordgrass (espartina) reducirá el rendimiento del producto. Puede ser necesario lavar las plantas que sean el objetivo antes de la aplicación para mejorar la absorción del herbicida. Donde el cordgrass haya sido cortado o segado antes de la aplicación, permita que vuelva a crecer bastante antes de aplicar para asegurar una intercepción y absorción adecuadas de la solución herbicida. La lluvía antes de transcurridas 2 horas o la inmersión antes de transcurridas 4 horas de la aplicación pueden reducir la eficacia.

Antes de la aplicación, inspeccione las zonas a tratar para determinar si existen bancos de mariscos dentro de la zona de tratamiento deseado. Espere hasta la recolección de los mariscos para hacer la aplicación o no recolecte los mariscos hasta pasados 14 días después de la aplicación.

Agregue de 1 a 2 cuartos de galón o más de surfactante no iónico u otro adyuvante para usar en zonas acuáticas y que sea compatible con este producto, por 100 galones de solución de rocio para aplicaciones al voleo (terrestres o aéreas) y cuando use equipo de aplicación con sensores ópticos.

No use ningún sistema de irrigación para aplicar este producto.

APLICACIÓN

En condiciones ideales de aplicación, esto es, cuando no haya desechos ni cieno en la superficie de las plantas, se pueda lograr una buena cobertura de rocío, las plantas que sean el objetivo estén en crecimiento activo y se usen los volúmenes de aplicación y las proporciones recomendadas en la etiqueta, permita un tiempo de secado de por lo menos 4 horas antes de que la marea cubra las plantas. Si no se cumple alguna de estas condiciones, programe las aplicaciones para permitir un tiempo de secado de por lo menos 5 horas antes de que la marea cubra las plantas. No lo aplique cuando la velocidad del viento en el lugar de la aplicación exceda las 10 millas por hora.

Aplicación al voleo (Terrestre): Aplique de 2 a 8 cuartos de galón de este herbicida en 5 a 100 galones de solución de rocío por acre. Para obtener los mejores resultados, se requiere cubrir por completo las concentraciones de cordgrass.

Aplicación al voleo (Terrestre/Equipo de aplicación con sensor óptico): Aplique de 2 a 8 cuartos de galón de este producto en 5 a 100 galones de solución de rocío por acre usando equipo diseñado y calibrado para solución de rocío solo cuando existan plantas de cordgrass y se detecten con los sensores ópticos. Para obtener los mejores resultados, se requiere cubrir por completo las concentraciones de cordgrass.

Mochila de mano o equipo de alto volumen: Aplique una solución de 5 a 8 por ciento de este producto. Asegúrese de obtener una cobertura completa de las concentraciones de cordgrass. No rocíe hasta el punto de escurrimiento.

Aplicación al voleo (Aérea): Aplique de 2 a 8 cuartos de galón de este herbicida en 5 a 10 galones de solución de rocío por acre. Mantenga una zona de transición de por lo menos 50 pies entre los bancos comerciales de mariscos y las zonas tratadas. La posibilidad

de arrastre del rocío depende de factores relacionados con el clima y con el equipo. Las personas que aplican el producto deben estar familiarizadas con los modelos locales de vientos, observar y registrar la temperatura y la velocidad del viento antes de la aplicación y periódicamente durante la misma. Programe la aplicación para permitir por lo menos 5 horas antes de que la marea cubra las plantas tratadas.

Para aplicación foliar y al voleo en knotweed (polígono) japonés

Para controlar el knotweed (poligono) japonés (Polygonum cuspidatum), este producto puede aplicarse como una solución de rocío para mojar al 2.0% v/v con 0.5 a 2.0% v/v de un surfactante no iónico que contenga por lo menos 70% de ingrediente activo. Asegúrese de lograr una cobertura completa cuando efectúe tratamientos de rocío para mojar mediante un equipo de mano.

Para aplicaciones al voleo, aplique 3 cuartos de galón de este producto con un sistema surfactante acuático aprobado que contenga 0.1% v/v de organosilicona no iónica y 0.25% v/v de surfactante no iónico adhesivo dispersante en 3 a 40 galones por acre como aplicación al voleo.

Deje pasar por lo menos 3 días antes de remover la vegetación tratada. Este producto no proporciona control de plantas completamente sumergidas o que tengan la mayor parte de su follaie baio agua.

Para aplicación foliar y al voleo en Oriental bittersweet

Para controlar el Oriental bittersweet (*Celastrus orbiculatus*), este producto puede aplicarse como una solución de rocío para mojar al 2.0% v/v con 0.5 a 2.0% v/v de un surfactante no iónico que contenga por lo menos 70% de ingrediente activo. Asegúrese de lograr una cobertura completa cuando efectúe tratamientos de rocío para mojar mediante un equipo de mano.

Para aplicaciones al voleo, aplique 2.25 cuartos de galón de este producto con un sistema surfactante acuático aprobado que contenga 0.1% v/v de organosilicona no iónica y 0.25% v/v de surfactante no iónico adhesivo dispersante en 3 a 40 galones por acre como aplicación al voleo.

Deje pasar por lo menos 3 días antes de remover la vegetación tratada, Este producto no proporciona control de plantas completamente sumergidas o que tengan la mayor parte de su follaje bajo agua.

Mezclas de tanque

Se pueden usar mezclas de tanque de este producto más 2,4-D amina para aumentar el espectro de vegetación controlada en zonas acuáticas. Use de 1.5 a 2 pintas de este producto más 1 a 2 cuartos de galón de 2,4-D amina (4 libras de ingrediente activo por galón, aprobado para zonas acuáticas) para controlar las malezas anuales. Use de 3 a 7.5 pintas de este producto más 2 a 4 cuartos de galón de 2,4-D amina (4 libras de ingrediente activo por galón, aprobado para zonas acuáticas) para controlar total o parcialmente las malezas perennes, matorrales leñosos y árboles.

Cuando haga mezclas de tanque, lea y siga cuidadosamente las instrucciones de la etiqueta, las declaraciones preventivas y toda la información contenida en las etiquetas de todos los productos utilizados. Use conforme a las precauciones más restrictivas de cada producto en la mezcla. Mezcle en el orden siguiente: Llene de agua hasta la mitad el tanque rociador, agregue Roundup Custom para uso acuático y terrestre, luego 2,4-D amina y finalmente el surfactante. Termine de llenar con agua el tanque rociador hasta el volumen final.

NOTA: NO MEZCLE LOS CONCENTRADOS DE ROUNDUP CUSTOM PARA USO ACUÁTICO Y TERRESTRE Y 2,4-D AMINA SIN AGUA COMO SUSTANCIA PORTADORA. NO MEZCLE LOS CONCENTRADOS DE ROUNDUP CUSTOM PARA USO ACUÁTICO Y TERRESTRE Y 2,4-D AMINA EN EL EQUIPO ROCIADOR TIPO INVECTOR DE RETORNO.

Q.2 Tocones cortados

El tratamiento de tocones cortados puede hacerse en cualquier área que se indique en esta etiqueta. Este producto controla muchas especies de matorrales leñosos y árboles. Aplique este producto utilizando el equipo apropiado para asegurar la cobertura total del cámbium. Corte los árboles o sus brotes cerca de la superficie del suelo. Aplique una solución de este producto de 50 a 100 por ciento a la superficie recientemente cortada immediatamente después del corte. La demora en la aplicación puede causar un rendimiento inferior. Para obtener los mejores resultados, las aplicaciones deben realizarse durante los períodos de crecimiento activo y de expansión completa de las hojas.

Para controlar el (Árbol del cielo) *Ailanthus aftissima*, haga una aplicación sobre tocones cortados de acuerdo con las instrucciones en esta sección usando una mezcla de rocío de 50% de Roundup Custom para uso acuático y terrestre y 10% de Arsenal.

NO HAGA LAS APLICACIONES SOBRE TOCONES CORTADOS CUANDO LAS RAICES DE LOS MATORRALES LEÑOSOS O ÁRBOLES DESEABLES PUEDEN ESTAR INJERTADAS A LAS RAICES DE LOS TOCONES CORTADOS. Algunos retoños, tallos o árboles pueden compartir el mismo sistema de raíces. Los árboles adyacentes de edad, altura y espaciado similares pueden tener raíces compartidas. Ya sean injertados o compartidos, es probable que se dañen tallos/árboles no tratados cuando se tratan uno o más árboles que comparten raíces entre sí.

8.3 Zonas de liberación herbácea y de coníferas

Este producto se puede usar para liberación de coníferas como rocío al voleo para control total o parcial o supresión de malezas herbáceas y árboles de madera dura indicados en la sección TIPOS DE MALEZAS CONTROLADAS de esta etiqueta. Úselo solamente en áreas donde se han establecido coníferas por más de un año, a menos que se indique lo contrario abajo. Este producto se puede aplicar como rocío directo o usando equipo

selectivo en lugares de coníferas y árboles de madera dura para forestación, incluyendo plantaciones de árboles de Navidad y viveros dedicados a la silvicultura.

Utilice un surfactante no iónico que esté indicado para aplicaciones desde arriba en liberación de coniferas. Consulte las dosis y otras declaraciones preventivas en la etiqueta del fabricante del surfactante. Si utiliza este producto sin un surfactante se reducirá el rendimiento del herbicida

LA APLICACIÓN SE DEBE REALIZAR DESPUÉS DE LA FORMACIÓN DE LOS BROTES FINALES DE LAS CONIFERAS EN OTOÑO O ANTES DE COMENZAR LA HINCHAZÓN DE LOS BROTES EN PRIMAVERA.

Puede ocurrir daño a las coníferas tratadas para liberación, particularmente donde se superponen los patrones de rocío o se aplican las dosis más altas. El daño puede agravarse si se hacen las aplicaciones cuando las coníferas están en crecimiento activo, o cuando están en condiciones de estrés por sequía, inundaciones, siembra incorrecta, insectos, enfermedades o daño por animales.

Para liberación de las siguientes especies de coníferas fuera del sudeste de los Estados Unidos:

Douglas Fir, Abeto (Fir), Hemlock, Pinos*, Secuoya (Redwood) de California, Spruce

* Incluye todas las especies, con excepción de los pinos Loblolly, de hoja larga, de hoja corta o Slash.

Utilice de 1.5 a 3 pintas de este producto por acre como rocío al voleo.

Para liberación de Douglas Fir y especies de pino y spruce (abeto falso) al finalizar la primera temporada de crecimiento (excepto en California), este producto se puede usar en las proporciones más bajas indicadas de 1.5 a 2.5 pintas por acre. Antes de aplicar, asegúrese de que las coníferas se hayan endurecido bien. Antes de usarlo, asegúrese de que se haya probado bien el uso seguro del surfactante no iónico en el Douglas Fir.

Para liberación del Spruce (especies de abeto falso) en Maine, Michigan, Minnesota, New Hampshire y Wisconsin, se pueden usar hasta 4.5 pintas por acre de este producto para el control de especies de árboles y matorrales leñosos difíciles de controlar, y se debe aplicar después de la formación de los brotes finales de las coniferas en el otoño.

No se recomienda el uso de un surfactante para la liberación de especies de Hemlock o de Secuoyas de California. Si se usa un surfactante en grupos mezclados de coníferas se puede causar daño a estas especies.

Para liberación de las siguientes especies de coníferas en el sudeste de los Estados Unidos:

Pino Loblolly, pino Slash, pino blanco del este, pino de Virginia, pino de hoja corta, pino de hoja larga

Aplique de 2.25 a 3.75 pintas de este producto por acre como rocío al voleo durante finales del verano o comienzos de otoño después que los pinos se hayan endurecido.

Si realiza aplicaciones a finales de la primera temporada de crecimiento, use 1.5 pintas por acre de este producto.

MEZCLAS DE TANQUE: Este producto se puede mezclar en tanque con los siguientes productos para liberación herbácea y de coníferas. Cuando prepare mezclas de tanque, lea y siga cuidadosamente las instrucciones de la etiqueta, las declaraciones preventivas y toda la información contenida en las etiquetas de todos los productos utilizados. Utilice conforme con las declaraciones preventivas más restrictivas de cada producto en la mezcla.

Cuando se aplica según las instrucciones, este producto más los herbicidas residuales indicados brindan control post emergencia de las malezas anuales y control o supresión de las malezas perennes indicadas en esta etiqueta, y control residual de las malezas indicadas en la etiqueta del herbicida residual. Úselo solamente en las especies de coníferas indicadas en la etiqueta de ambos productos para rocío desde arriba.

atrazine

Arsenal Applicator Concentrate

Oust XP

Finales de verano y otoño, después de la formación de brotes latentes

Para la liberación de pino jack, pino blanco y spruce blanco, aplique de 1.5 a 3 pintas de este producto, más de 1 a 3 onzas de Oust XP por acre. Para pino blanco, prepare una mezcla de tanque con 1 a 1.5 onzas de Oust XP por acre.

Para liberación de coníferas de Douglas fir, utilice de 1.5 a 2.25 pintas de este producto, más de 2 a 6 onzas de concentrado para aplicadores Arsenal por acre. Para liberación de coníferas de balsam fir (abeto de Navidad) y red spruce, utilice 3 pintas de este producto, más de 1 a 2.5 onzas de concentrado para aplicadores Arsenal por acre.

Liberación herbácea

Para liberación herbácea en primavera y principios de verano de pino loblolly, pino de Virginia y pino de hoja larga, aplique de 12 a 18 onzas líquidas de este producto con 2 a 4 onzas de Oust XP.

Para liberación de Douglas fir a comienzos de primavera, antes de la hinchazón de los brotes, aplique 1.5 pintas de este producto, más 4 libras del ingrediente activo de atrazine por acre. Deje pasar una temporada de crecimiento completa antes de la aplicación. No agregue surfactantes aceta trategiante.

8.4 Preparación del lugar para forestación

Este producto puede ser utilizado para controlar total o parcialmente matorrales leñosos, árboles y malezas herbáceas en forestaciones, y preparar o crear claros para la vida silvestre en estos lugares y para mantener los caminos de las explotaciones forestales. Este producto puede ser utilizado para preparar el lugar antes de plantar cualquier especie de árbol, como árboles de Navidad, eucaliptos, cultivos de árboles híbridos y viveros dedicados a la silvicultura.

Para aplicaciones usando diferentes tipos de equipos, consulte la tabla de PROPORCIONES DE APLICACIÓN en la sección **EQUIPO DE MANO** de esta etiqueta.

MEZCLAS DE TANQUE: Se pueden usar mezclas de tanque de este producto para aumentar el espectro de vegetación controlada en la preparación del lugar para forestación. Cuando prepare mezclas de tanque, lea y siga cuidadosamente las instrucciones de la etiqueta, las declaraciones preventivas y toda la información contenida en las etiquetas de todos los productos utilizados. Use conforme a las precauciones más restrictivas de cada producto en la mezcla.

NOTA: Para la preparación del lugar para forestación, asegúrese de que el producto para mezclar en tanque esté aprobado antes de plantar las especies deseadas. Respete las restricciones del intervalo de plantación.

Todas las proporciones recomendadas de este producto se pueden utilizar en una mezcla de tanque con los siguientes productos para la preparación de sitios de forestación.

Arsenal Applicators Concentrate Garlon 3A
Chopper GEN2 Garlon 4
Chopper GEN2 Oust XP

Escort

Para el control de malezas herbáceas, use las proporciones de mezcla de tanque más bajas. Para controlar grupos densos o difíciles de matorrales leñosos y árboles, utilice las proporciones de mayor concentración recomendadas en mezcla de tanque.

A menos que se especifique de otra manera en esta etiqueta, en etiquetas complementarias separadas o fichas técnicas publicadas por Monsanto, no aplique este producto como rocío desde arriba para liberación herbácea y de coníferas para forestación.

Q.5 Áreas no cultivadas y áreas industriales

Aplique en áreas como aeropuertos, complejos de viviendas, centros comerciales, acequias, acequias secas, canales secos, cercas, bosques, campos de golf, terrenos industriales, depósitos de madera, zonas de manufactura, complejos de oficinas, parques, áreas de estacionamiento, zonas con tanques de petróleo e instalaciones de bombeo, vías de ferrocarril, áreas recreativas, áreas residenciales, bordes de carreteras, granjas de semillas de césped o tepes, escuelas, áreas de almacenamiento, subestaciones, zonas de servicios públicos, zonas de almacenes y zonas de manejo de vida silvestre.

Control general de malezas, recortado de bordes y suelo limpio de malezas

Este producto se puede usar en lugares no cultivados. Puede aplicarse con cualquiera de los equipos descritos en esta etiqueta. Este producto puede usarse para el recortado de bordes alrededor de objetos, para tratamiento localizado de vegetación no deseable y para eliminar las malezas no deseables que crecen en lechos de arbustos establecidos y plantaciones omamentales. Este producto puede usarse antes de plantar un área con plantas ornamentales, flores, césped (tepes o semillas), o antes de colocar asfalto o de comenzar un proyecto de construcción.

Repita las aplicaciones de este producto según emerjan las malezas para mantener el suelo vacío.

MEZCLAS DE TANQUE: Este producto puede ser mezclado en el tanque con los productos siguientes.

Arsenal Garlon 3A Ronstar 50WF atrazine* Garlon 4 simazine³ Barricade 65WG Goal 2XL Surflan AS Certainty® Krovar I DF Surflan WDG Crossbow L Landmark II Telar DF Landmark II MP dicamba³ Transline diuron* Outrider® Veloar DF Endurance Oust XP Velpar L Escort XP Plateau 2.4-D* Gallery 75DF Poast

No aplique mezclas con dicamba por aire en California. Solo se pueden utilizar formulaciones de 2,4-D amina para la aplicación aérea en California.

Mezclas de tanque para control de matorrales

MEZCLAS DE TANQUE: Se pueden usar mezclas de tanque de este producto para aumentar el espectro de control para malezas herbáceas, matorrales leñosos y árboles. Cuando prepare mezclas de tanque, lea y siga cuidadosamente las instrucciones de la etiqueta, las declaraciones preventivas y toda la información contenida en las etiquetas de todos los productos utilizados. Use conforme a las declaraciones preventivas más restrictivas de cada producto en la mezcla. Para la mezcla de tanque, puede utilizarse cualquier cantidad de este producto que se encuentre dentro del rango indicado en la etiqueta.

Para el control de malezas herbáceas, use las proporciones dosis más bajas de mezcla de tanque. Para controlar grupos densos o difíciles de matorrales leñosos y árboles, utilice las proporciones más altas recomendadas.

^{*}El usuario es responsable de asegurarse de que las mezclas de tanque con productos que contienen este ingrediente activo genérico pueden realizarse siempre y cuando dichos productos estén aprobados para su aplicación.

NOTA: Para el tratamiento de recorte lateral, este producto puede utilizase solo o en una mezcla de tanque con Garlon 4.

Arsenal Garlon 3A Escort XP Garlon 4

Segado químico - Perennes

Este producto inhibe los pastos perennes indicados en esta sección y sirve como sustituto de la siega. Utilice 6 onzas líquidas de este producto por acre para el tratamiento de festuca alta, festuca fina, orchardgrass, quackgrass o reed canarygrass. Utilice 5 onzas líquidas de este producto por acre para el tratamiento del Kentucky bluegrass. Aplique los tratamientos en 10 a 40 galones de solución de rocío por acre. Aplique después que los pastos hayan alcanzado el 75 por ciento del color verde en primavera o de 7 a 10 días después de cortado cuando haya suficiente recrecimiento para proporcionar una altura deseable para regular el crecimiento.

Use solo en lugares donde se puede tolerar cierto daño o decoloración temporal en pastos perennes.

Segado químico - Plantas anuales

Para suprimir el crecimiento de algunos pastos anuales, tales como ryegrass, cebada silvestre y avena silvestre que crecen en céspedes agrestes al borde de las carreteras u otras áreas industriales, aplique de 3 a 4 oraza líquidas de este producto en 10 a 40 galones de solución de rocío por acre. Las aplicaciones se deben realizar cuando los pastos anuales crezcan activamente y antes de que las cabezuelas se encuentren en la etapa de bota del desarrollo. Los tratamientos pueden perjudicar los pastos deseables.

Césped latente (durmiente)

Use este producto para controlar o suprimir muchas malezas anuales de invierno y festuca alta para la liberación eficaz de céspedes de bermudagrass y bahiagrass durmientes. Trate solamente cuando el césped esté durmiente y antes de reverdecer en la orimayera.

Aplique de 6 a 48 onzas líquidas de este producto por acre. Aplique las proporciones recomendadas en 10 a 40 galones de agua por acre. Úselo solamente en áreas donde el bermudagrass o bahiagrass son deseables y en las que puede tolerarse un poco de daño o decoloración

Los tratamientos en exceso de 12 onzas líquidas por acre, pueden dañar o retrasar el reverdecer en las áreas donde se hace mucho mantenimiento, como campos de golf y jardines. NO aplique mezclas de tanque de este producto más Oust XP u Outrider en áreas de césped donde se hace mucho mantenimiento. Para otros usos, vea la sección BORDES DE LAS CARRETERAS de esta etiqueta, que ofrece las proporciones para tratamientos de bermudagrass y bahiagrass latentes.

Bermudagrass de crecimiento activo

Este producto puede usarse para controlar total o parcialmente muchas malezas anuales y perennes para liberación eficaz de bermudagrass en crecimiento activo. NO aplique más de 12 onzas líquidas de este producto por acre en áreas de céspedes de alto mantenimiento. No aplique mezclas de tanque de este producto más Oust XP u Outrider en áreas de césped donde se hace mucho mantenimiento. Para otros usos, va la sección BORDES DE LAS CARRETERAS de esta etiqueta, que ofrece las proporciones para tratamientos de bermudagrass de crecimiento activo. Utilícelo solo en áreas donde puede tolerarse algún daño temporal o descoloración.

Renovación del césped, producción de semillas o tepes

Este producto controla la mayoría de la vegetación existente antes de la renovación del césped o de establecer céspedes cultivados para semilla o tepes. Para un control máximo de la vegetación existente, demore la siembra o cobertura de césped a fin de determinar si las partes de la planta que quedaron bajo tierra vuelven a crecer. Cuando sea necesario repetir el tratamiento, permita que las plantas se desarrollen lo sufficiente antes de volver a tratar. Para controlar más eficientemente los pastos de estación cálida, como bermudagrass, se debe aplicar este producto en el verano o en el otóño. En lugares donde la vegetación existente esté creciendo y el césped esté bajo un programa de siega, aplique este producto después de omitir por lo menos un corte del césped para permitir un crecimiento sufficiente a fin de que el rocío sea interceptado por las plantas.

No remueva la tierra ni las partes de la planta que estén bajo tierra antes del tratamiento. La labranza o las técnicas de renovación como corte vertical, perforación o rebanado deben esperar 7 días después de la aplicación a fin de permitir la absorción adecuada en las partes de la planta que estén bajo tierra.

Pueden sembrarse los céspedes deseados siguiendo los procedimientos anteriormente mencionados.

Puede utilizarse equipo de mano para el tratamiento en sitio de vegetación no deseada que crezca en el césped existente. Puede utilizarse equipo al voleo o de mano para controlar los restos de tepes u otra vegetación no deseada después de cosechar el tepe. No utilice el césped que se cultiva para la producción de semillas o tepes para alimentar animales durante 8 semanas después de la aplicación.

8.6 Manejo del hábitat

Restauración y mantenimiento de hábitats

Utilice este producto para controlar la vegetación exótica y otro tipo de vegetación no deseada en zonas naturales y donde se realiza manejo del hábitat, incluyendo zonas de estuarios y riberas, tierras de pastoreo y refugios para la vida silvestre. Pueden hacerse aplicaciones para permitir la recuperación de las especies de plantas nativas, antes de plantar dichas especies nativas deseables, y para otros requisitos similares de control de la vegetación de amplia efectividad. A fin de eliminar selectivamente ciertas

plantas indeseables, se pueden hacer aplicaciones localizadas para controlar y mejorar el hábitat

Parcelas para alimento de la vida silvestre

Este producto se puede utilizar como tratamiento a fin de preparar el lugar antes de sembrar parcelas para alimento de la vida silvestre. Después de aplicar este producto se puede sembrar cualquier especie de alimento para la vida silvestre o se puede permitir la repoblación de la zona con especies nativas. Si debe labrar para preparar un semillero, deje transcurrir 7 días de la aplicación antes de hacerlo a fin de permitir la absorción adecuada en las partes de la planta que estén bajo tierra.

8.7 Inyección de tallos huecos

Aplique este producto a través de dispositivos de inyección manuales para administrar las cantidades recomendables de este producto a las plantas con tallo hueco identificadas que crecen en cualquiera de los lugares acuáticos o no cultivados especificados en esta etiqueta. Para el control de las siguientes plantas de tallo hueco, utilice según las instrucciones más abaio:

Castorbean (Ricinus communis)

Inyecte 4 ml por planta de este producto en la parte inferior del tallo principal.

Hemlock, Poison (Conium maculatum)

Inyecte una caña de una hoja por planta 10 a 12 pulgadas por encima de la corona de la raíz con 5 ml de una solución al 5% y/y de este producto.

Hogweed, Giant (Heracleum mantegazzianum)

Inyecte una caña de una hoja por planta 12 pulgadas por encima de la corona de la raíz con 5 ml de una solución al 5% v/v de este producto.

Horsetail, Field (Equisetum arvense)

Inyecte un segmento por encima de la corona de la raíz con 0.5 ml de este producto por tallo. Use una jeringa pequeña que pueda medir esa dosis.

Iris, Yellow Flag (Iris Pseudocorus)

Use una tijera de podar para cortar los tallos de las flores de 8 a 9 pulgadas por encima de la corona de la raíz. Utilice una aguja hueca que se introduce en el centro del tallo y luego se extrae lentamente a medida que inyecta 0.5 ml de este producto en cada tallo.

Knotweed, Bohemian (Polygonum bohemicum), Knotweed, Giant (Polygonum sachalinense), and Knotweed, Japanese (Polygonum cuspidatum)

Inyecte 5 ml por tallo de este producto en el segundo o tercer entrenudo.

Reed, Common (Phragmites australis)

Inyecte 5 ml por tallo de una solución al 50% de este producto en el segundo o tercer internudo o en tallos recién cortados.

Reed, Giant (Arundo donax)

Inyecte 6 ml por tallo de este producto en el segundo o tercer entrenudo.

Thistle, Canada (Cirsium arvense)

Use una tijera de podar para cortar de 8 a 9 de las plantas más altas en la etapa de brotación. Utilice una aguja hueca que se introduce en el centro del tallo y luego se extrae lentamente a medida que inyecta 0.5 ml de este producto en cada tallo.

NOTA: Basándose en la dosis máxima de uso anual de glifosato para estas áreas no cultivadas, el total combinado para todas las aplicaciones no debe exceder los 8 cuartos de galón de este producto por acre. A razón de 5 ml por tallo, 8 cuartos de galón deben tratar aproximadamente 1500 tallos.

8.8 Inyección y chorro (matorrales leñosos y árboles)

Este producto puede aplicarse por inyección o chorro para el control total o parcial de matorrales leñosos y árboles. Aplique este producto usando equipo adecuado, que debe ser capaz de penetrar en el tejido viviente. Aplique el equivalente a 1 ml de este producto por cada 2 ó 3 pulgadas de diámetro del tronco a la altura del pecho (DBH en inglés). La mejor forma de hacerlo es aplicando una solución a una concentración del 50 al 100 por ciento de este producto, con un chorro continuo alrededor del árbol o en cortes espaciados uniformemente alrededor del árbol y por debajo del nivel de las ramas. A medida que el diámetro del árbol a umenta, se obtenen mejores resultados con el chorro continuo alrededor del árbol o en cortes espaciados muy cerca entre sí alrededor del árbol. Evite las aplicaciones que permiten el escurrimiento de material cuando se chorrea alrededor del árbol o sobre los cortes en árboles que tienen la facilidad de exudar savia de los cortes. En especies de este tipo, haga los cortes de manera oblicua a fin de producir el efecto de copa y use el producto a una concentración del 100 por ciento. Para obtener mejores resultados, la aplicación debe tener lugar durante períodos de crecimiento activo y después de la expansión completa de las hojas.

8.9 Plantas ornamentales, viveros y árboles de Navidad

Post-dirigido y recortado de bordes

Este producto se puede utilizar como un rocío post-dirigido alrededor de especies ornamentales leñosas establecidas, como arborvitae, azalea, boj, manzano silvestre, eucalipto, evónimo, abeto, douglas fir, jojoba, acebo (hollies), lilo, magnolio, arce, roble, álamo, alheña, pino, spruce y tejo. Este producto también se puede utilizar para recortado de bordes alrededor de árboles, edificios, aceras y carreteras, plantas en macetas y otros obietos de viveros.

Las plantas deseables se pueden proteger de la solución de rocío usando pantallas o cubriéndolas con cartón o con algún otro material impermeable. ESTE PRODUCTO NO SE RECOMIENDA PARA ROCIARSE DESDE ARRIBA SOBRE PLANTAS ORNAMENTALES Y ÁRBOLES DE NAVIDAD. Se debe tener mucho cuidado para que el rocío, arrastre o niebla de este producto no hagan contacto con el follaje o la corteza de las especies ornamentales establecidas.

Preparación del terreno

Este producto puede usarse antes de plantar cualquier tipo de planta ornamental, de vivero o árboles de Navidad.

Aplicaciones con enjugador

Este producto se puede usar mediante aplicadores de mecha de esponja u otro tipo de aplicadores con enjugador adecuados, para controlar total o parcialmente la vegetación indeseable alrededor de eucaliptos o álamos establecidos. Consulte la sección **Equipo selectivo** de esta etiqueta para obtener mayor información sobre el uso adecuado de los aplicadores con enjugador.

Invernaderos/cobertizos

Este producto se puede usar para controlar las malezas que estén creciendo en o alrededor de los invernaderos y cobertizos. No debe haber vegetación deseable durante la aplicación y los equipos de ventilación deben estar apagados.

8.10 Parques, áreas recreativas y residenciales

Todas las instrucciones de la sección **Áreas no cultivadas y Áreas industriales** son válidas para los parques y áreas recreativas.

Este producto se puede usar en parques, áreas recreativas y residenciales. Puede aplicarse con cualquiera de los equipos descritos en esta etiqueta para recortado de bordes alrededor de árboles, cercas y caminos, alrededor de edificios, aceras y otros objetos en estos lugares. Este producto puede usarse para tratamiento localizado de vegetación no deseable o para eliminar las malezas no deseables que crecen en lechos de arbustos establecidos y plantaciones ornamentales. Este producto puede usarse antes de sembrar un área con plantas ornamentales, flores, césped (tepes o semillas), o antes de colocar asfalto o de comenzar un proyecto de construcción.

8.11 Vías de ferrocarril

Todas las instrucciones de la sección **Áreas no cultivadas y Áreas industriales** son válidas para las vías de ferrocarril.

Suelo vacío, balastos y bordes, cruces y tratamiento localizado

Este producto puede usarse para mantener el suelo limpio de malezas en balastos y bordes de las vías de ferrocarril. Repita las aplicaciones de este producto según emerjan las malezas para mantener el suelo vacío. Este producto puede usarse para controlar las malezas altas y mejorar la línea visual en los cruces de ferrocarril y reducir la necesidad de segar a lo largo de las servidumbres de vía. Para aplicaciones en los cruces, pueden usarse hasta 80 galones de solución de rocío por acre.

MEZCLAS DE TANQUE: Este producto se puede mezclar en un tanque con los siguientes productos para tratamientos en balasto, bordes, tratamiento cruzado y suelo limpio, siempre que éstos estén aprobados para el área de uso deseada.

Arsenal	Hyvar X-L	Spike 80D
atrazine*	Krovar I DF	Telar DF
dicamba*	Oust XP	Transline
Escort XP	Outrider	Velpar DF
Garlon 3A	Sahara DG	Velpar L
Garlon 4	simazine*	2,4-D*

Hyvar X

*Pueden realizarse mezclas de tanque con productos que contengan este ingrediente activo siempre y cuando dichos productos estén aprobados para su aplicación. El usuario es responsable de garantizar que en la etiqueta del producto utilizado en la mazcla estén permitidas las aplicaciones específicas cuando se realicen mezclas de tanque con un ingrediente activo genérico.

Control de matorrales

Este producto se puede usar para controlar matorrales leñosos y árboles en las servidumbres de vías de ferrocarril. Aplique de 3 a 8 cuartos de galón de este producto por acre para aplicaciones diseminadas, usando boquillas tipo brazo o sin brazo, Pueden usarse hasta 80 galones de solución de rocío por acre. Aplique una solución de 0.75 a 1.5 por ciento de este producto cuando haga aplicaciones de rocío para mojar del alto volumen. Aplique una solución de 4 a 8 por ciento de este producto cuando haga aplicaciones de rocío dirigido de bajo volumen para tratamientos localizados.

MEZCLAS DE TANQUE: Este producto se puede mezclar en un tanque con los siguientes productos para un mejor control de matorrales leñosos y árboles, siempre y cuando estos productos estén aprobados para el área de uso deseada.

Arsenal	Krenite	Transline
Escort XP	Telar DF	Vanguish
Garlon 3A	Tordon K	Velpar DF
Garton 4	Tordon 22K	Velpar L

Puede obtener instrucciones adicionales en la sección **Áreas no cultivadas y Áreas industriales** bajo Mezclas de tanque para control de matorrales.

Mantenimiento de Bermudagrass

Este producto puede usarse para controlar total o parcialmente muchas malezas anuales y perennes para el mantenimiento eficaz de bermudagrass en crecimiento activo. Aplique de 12 a 36 onzas líquidas de este producto en un máximo de 80 galones de solución de rocío por acre. Para tratar malezas anuales que tengan menos de 6 pulgadas de altura (o el largo de los tallos), use las proporciones más bajas. Use la proporción más alta a medida que las malezas anumenten de tamaño o cuando estén cerca de la floración o de la formación de semillas. Estas proporciones también controlan parcialmente las siguientes especies perennes:

Bahiagrass	Fescue, tall	Trumpetcreeper
Bluestem, silver	Johnsongrass	Vaseygrass

MEZCLAS DE TANQUE: Este producto puede ser mezclado con Oust XP. Si se mezcla en tanques, no use más de 12 a 36 onzas líquidas de este producto con 1 a 2 onzas de Oust XP por acre. Para tratar malezas anuales listadas en este etiqueta y en las etiqueta de Oust XP, que tengan menos de 6 pulgadas de altura (o el largo de los tallos), use las proporciones más bajas de cada producto. Use la proporción más alta a medida que las malezas anuales aumenten de tamaño o cuando estén cerca de la floración o de la formación de semillas. Estas proporciones también controlan parcialmente las siguientes malezas prennes:

	•	_	
Bahiagrass	Dock, curly		Trumpetcreeper
Blackberry	Dogfennel		Vaseygrass
Bluestern, silver	Fescue, tall		Vervain, blue
Broomsedge	Johnsongrass		
Dallisgrass	Poorioe		

Raspberry

Úselo solamente en bermudagrass que esté bien establecido. Como resultado del tratamiento, el bermudagrass puede sufrir deterioro, pero volverá a crecer si se riega. No se recomienda repetir el tratamiento en la misma estación, ya que esto puede ocasionar daños graves al bermudagrass.

8.12 Bordes de carreteras

Todas las instrucciones de la sección **Áreas no cultivadas y Áreas industriales** son válidas para los bordes de las carreteras.

Tratamiento de bordes

Dewberry

Aplique este producto en los bordes de las carreteras como rociadores con brazos, rociadores con brazos y pantallas, boquillas concentradas de alto volumen, equipo de mano y equipos similares.

Barandas y otros obstáculos para la siega

Este producto puede ser usado para controlar las malezas que crecen debajo de las barandas y alrededor de la señalización y otros objetos en los bordes de las carreteras.

Tratamiento localizado

Este producto puede ser usado como tratamiento localizado para controlar la vegetación no deseada que crece a lo largo de los bordes de las carreteras.

MEZCLAS DE TANQUE: Este producto puede mezclarse en tanque con los siguientes productos para tratamientos de bordes, barandas, localizados y de suelo limpio siempre y cuando dichos productos estén aprobados para su uso en dichos sitios. Consulte las etiquetas de este producto y siga cuidadosamente las declaraciones preventivas y toda la información en las etiquetas de todos los herbicidas utilizados. Use conforme a las declaraciones preventivas más restrictivas de cada producto en la mezcla.

atrazine*	Landmark MP	Sahara DG
Crossbow L	Landmark XP	simazine*
dicamba*	Oust XP	Surflan AS
diuron*	Outrider	Surflan WDG
Escort XP	pendimethalin*	Telar DF
Endurance	Plateau	Velpar DF
Gallery 75 DF	Plateau DG	Velpar L
Krovar i DF	Poast	2.4-D*
Landmark II MP	Ronstar 50 WSP	_,

^{*} Pueden realizarse mezclas en tanque con productos que contienen este ingrediente activo genérico siempre y cuando dichos productos estén aprobados para su aplicación. El usuario es responsable de asegurarse que la mezcla de productos permite la aplicación específica.

Liberación de Bermudagrass y Bahiagrass

Aplicaciones cuando estén latentes (durmientes)

Este producto puede usarse para controlar total o parcialmente muchas malezas anuales de invierno y festuca alta para el mantenimiento eficaz de bermudagrass y bahiagrass latentes. Trate solamente cuando el césped esté durmiente y antes de reverdecer en la primavera. Este producto puede mezclarse en tanque con el herbicida Outrider u Oust XP para el control residual. Las mezclas de tanque de este producto con Oust XP pueden retrasar el reverdecer.

Para obtener mejores resultados con malezas anuales de invierno, haga el tratamiento cuando las plantas estén en una etapa temprana de crecimiento (menos de 6 pulgadas de altura) después de que la mayoría haya germinado. Para obtener mejores resultados con festuca alta, haga el tratamiento cuando la festuca esté en o después de su etapa de 4 a 6 hoias.

Aplique de 6 a 48 onzas líquidas de este producto en una mezcla de tanque con 0.75 a 1.33 onzas de herbicida Outrider por acre. Lea y siga todas las instrucciones de la etiqueta del herbicida Outrider.

MEZCLAS DE TANQUE: Aplique de 6 a 48 onzas líquidas de este producto por acre, solo o en mezcla de tanque con 0.25 a 1 onza de Oust XP por acre. Aplique las dosis recomendadas en la etiqueta en 10 a 40 galones de agua por acre. Úselo solamente en áreas donde el bermudagrass o bahiagrass son deseables y en las que puede tolerarse un poco de daño o decoloración. Para evitar que el reverdecer se retrase y para minimizar el daño, no agregue más de 1 onza de Oust XP por acre sobre bermudagrass y no más de 0.5 onzas de Oust XP por acre sobre bahiagrass, y evite el tratamiento cuando estos pastos se encuentren en estado semilatente.

Bermudagrass de crecimiento activo

Este producto puede usarse para controlar total o parcialmente muchas malezas anuales y perennes para liberación eficaz de bermudagrass en crecimiento activo. Aplique de 12 a 36 onzas líquidas de este producto en 10 a 40 galones de solución de rocio por acre. Para tratar malezas anuales que tengan menos de 6 pulgadas de altura (o el largo de los tallos), use las proporciones más bajas. Use la proporción más alta a medida que las malezas aumenten de tamaño o cuando estén cerca de la floración o de la formación de semillas. Estas proporciones también controlan parcialmente las siguientes especies perennes:

Bahiagrass	Fescue, tall	Trumpetcreeper
Bluestem, silver	Johnsongrass	Vaseygrass

MEZCLAS DE TANQUE: Este producto puede ser mezclado en tanque con el Outrider para el control total o parcial de Johnsongrass y otras malezas indicadas en la etiqueta del Outrider. Use de 6 a 24 onzas líquidas de este producto con 0.75 a 1.33 onzas de Outrider. Utilice las proporciones más altas de ambos productos para el control de malezas perennes o anuales que tengan una altura superior a 6 pulgadas.

Este producto puede ser mezclado con Oust XP. Si se mezcla en tanques, no use más de 12 a 24 onzas líquidas de este producto con 1 a 2 onzas de Oust XP por acre. Para tratar malezas anuales listadas en este etiqueta y en las etiqueta de Oust XP, que tengan menos de 6 pulgadas de altura (o el largo de los tallos), use las proporciones más bajas de cada producto. Use la proporción más alta a medida que las malezas anuales aumenten de tamaño o cuando estén cerca de la floración o de la formación de semillas. Estas proporciones también controlan parcialmente las siguientes malezas perennes:

Bahiagrass	Dock, curly	Poorjoe
Bluestem, silver	Dogfennel	Trumpetcreeper
Broomsedge	Fescue, tall	Vaseygrass
Dallisgrass	Johnsongrass	Vervain, blue

Úselo solamente en bermudagrass que esté bien establecido. Como resultado del tratamiento, el bermudagrass puede sufrir deterioro, pero volverá a crecer si se riega. No se recomienda repetir el tratamiento de mezcla de tanque en la misma estación, ya que esto puede ocasionar daños graves al bermudagrass.

Bahiagrass de crecimiento activo

Para suprimir el crecimiento vegetativo e inhibir la formación de semillas de bahiagrass durante aproximadamente 45 días, aplique 4 onzas líquidas de este producto en 10 a 40 galones de agua por acre. Aplique de 1 a 2 semanas después de reverdecer completo o después de cortar a una altura uniforme de 3 a 4 pulgadas. Esta aplicación debe realizarse antes de la emergencia de las semillas.

Para suprimir hasta por 120 días, aplique 3 onzas líquidas de este producto por acre, y a continuación una aplicación de 2 a 3 onzas líquidas por acre unos 45 días más tarde. No haga más de 2 aplicaciones al año.

Este producto se puede utilizar para el control total o parcial de Johnsongrass y otras malezas indicadas en la etiqueta de Outrider, en bahiagrass en crecimiento activo. Use de 1.5 a 3.5 onzas líquidas de este producto con 0.75 a 1.33 onzas de Outrider. Utilice las proporciones más altas de ambos productos para el control de malezas perennes o anuales que tengan una altura superior a 6 pulgadas. Utilice solo en bahiagrass bien establecido.

Se puede utilizar la mezcla de tanque de este producto con Oust XP. Aplique 4 onzas líquidas de este producto con 1/4 onzas de Oust XP por acre, 1 a 2 semanas después de la primera siega de la primavera. Haga solamente una aplicación al año.

8.13 Sitios de servicios públicos

Esta producto puede ser utilizado a lo largo de servidumbres de paso de energía eléctrica, conductos y teléfonos y en otros lugares asociados con estas servidumbres de paso, como subestaciones, bordes de carreteras, vías de ferrocarril o servidumbres de paso similares para servicios públicos. Úselo para preparar o establecer zonas de reserva de vida silvestre dentro de estos sitios, mantener los caminos-de acceso y para el recorte lateral a lo largo de las servidumbres de paso.

MEZCLAS DE TANQUE: Se pueden usar mezclas de tanque de este producto para aumentar el espectro de control para malezas herbáceas, matorrales leñosos y árboles. Para la mezcla de tanque puede utilizarse cualquier cantidad de este producto que se encuentre dentro del rango indicado en la etiqueta.

Para el control de malezas herbáceas, use las proporciones más bajas de mezcla en tanque. Para controlar grupos densos o difíciles de matorrales leñosos y árboles, utilice las proporciones más altas recomendadas.

NOTA: Para el tratamiento de recorte lateral, este producto puede utilizase solo o en una mezcla de tanque con Garlon 4.

Arsenal	Krenite	Surflan AS
atrazine*	Krovar I DF	Surflan WDG
dicamba*	Oust XP	Telar DF
diuron*	Outrider	Transline
Endurance	pendimethalin*	Vanguish
Escort XP	Plateau	Velpar DF
Garlon 3A**	Sahara DG	Velpar L
Garion 4	simazine*	2.4-D*

- * Pueden realizarse mezclas de tanque con productos que contienen este ingrediente activo genérico siempre y cuando dichos productos estén aprobados para su aplicación. El usuario es responsable de asegurarse que la mezcla de productos permita la aplicación específica.
- ***Asegúrese de mezclar bien el Garlon 3A con agua según las instrucciones antes de agregar este producto. Para evitar problemas de incompatibilidad de rocío, agite la mezcla del rocío en el momento que agregue este producto.

Suelo limpio y recortado de bordes

Este producto puede ser utilizado en áreas de servicios públicos y subestaciones para el mantenimiento del suelo limpio, el recortado de bordes alrededor de objetos, y el tratamiento localizado de vegetación no deseable, así como para eliminar las malezas no deseables que crecen en lechos de arbustos establecidos o plantaciones ornamentales. Este producto puede utilizarse antes de sembrar un área de servicios públicos con plantas ornamentales, flores y césped (panes de césped o semillas) o antes de comenzar un provecto de construcción.

Repita las aplicaciones de este producto según emerjan las malezas para mantener el suelo vacío.

MEZCLAS DE TANQUE: Mezcle en tanque con los siguientes productos. Consulte las etiquetas de cada producto para los sitios y proporciones de aplicación aprobados. Lea y siga cuidadosamente las declaraciones preventivas toda la información en las etiquetas de todos los herbicidas utilizados. Use conforme a las declaraciones preventivas más restrictivas de cada producto en la mezcla.

Arsenal	Garlon 3A	Poast
atrazine*	Garlon 4	Ronstar 50WP
Barricade 65WG	Goal 2XL	simazine*
Certainty	Krovar DF	Surflan AS
Crossbow L	Landmark II MP	Surflan WDG
dicamba *	Landmark II	Telar DF
diuron*	Outrider	Transline
Endurance	Oust XP	Velpar DF
Escort XP	pendimethalin*	Velpar L
Gallery 75DF	Plateau	2.4-D*

*Pueden realizarse mezclas de tanque con productos que contienen este ingrediente activo genérico siempre y cuando dichos productos estén aprobados para su aplicación. El usuario es responsable de asegurarse que la mezcla de productos permita la aplicación específica.

9.0 PASTURAS Y TIERRAS DE PASTOREO

Q.1 Pasturas

CULTIVOS CLASIFICADOS: Bahiagrass, Bermudagrass, Bluegrass, Brome, Fescue, Guineagrass, Kikuyugrass, Orchardgrass, Pangola grass, Ryegrass, Timothy, Wheatgrass.

Antes de sembrar, pre emergencia, renovación de pasturas

Este producto se puede aplicar antes de la siembra o emergencia de pastos para forraje. Además, este producto se puede utilizar para controlar especies de pasturas perennes indicadas en esta etiqueta antes de resembrar.

Si las proporciones de aplicación totales equivalen a 4.5 pintas por acre o menos, no se requiere período de espera entre el tratamiento y la utilización como alimento o pastoreo del ganado. Si la proporción es mayor de 4.5 pintas por acre, retire el ganado doméstico antes de aplicar y espere 8 semanas después de haber efectuado la aplicación para utilizar como pastura o para cosechar.

Tratamiento localizado, aplicaciones de enjugado por encima

Se puede aplicar este producto como tratamiento localizado o con aplicadores con enjugador en pasturas. Se pueden hacer aplicaciones en la misma área con intervalos de 30 días.

Para tratamientos localizados o métodos de aplicación de enjugado en los que se utilicen dosis de 4.5 pintas por acre o menos, se puede tratar todo el campo o una parte. Cuando se realicen tratamientos localizados o con aplicadores con enjugador utilizando dosis superiores a los 4.5 pintas por acre, no se podrá tratar más de 10 por ciento del total de la pastura cada vez. Para lograr el mejor rendimiento, retire el ganado doméstico antes de la aplicación y espere 7 días después de la aplicación antes de permitir el pastoreo del ganado o cosechar.

Control de malezas post emergencia (Tratamientos al voleo)

Este producto se puede aplicar en pasturas para suprimir el crecimiento competitivo y la producción de semillas de malezas anuales y vegetación no deseable. Para aplicaciones selectivas con equipo de rocío al voleo, aplique 9 a 12 onzas líquidas de este producto por acre al comenzar la primavera antes de que los pastos perennes deseables comiencen la actividad e inicien el crecimiento vegetativo. Se pueden efectuar aplicaciones al finalizar el otoño después de que los pastos perennes lleguen al período de inactividad.

Se producirá cierta atrofia de los pastos perennes si las aplicaciones al voleo se realizan cuando las plantas están activas. No se necesita período de espera entre la aplicación y el pastoreo o para cosechar como alimento. El uso de proporciones mayores causará reducciones en el grupo de plantas. No aplique más de 4.5 pintas por acre por año en pastos de pastura, excepto en casos de renovaciones. Si debe resembrar debido a una severa reducción en el grupo de plantas, espere 30 días después de la aplicación para sembrar cualquier cultivo que no esté indicado en esta etiqueta.

9.2 Tierras de pastoreo

Este producto controla o inhibe muchas malezas anuales que crecen en tierras de pastoreo de pastos perennes de estaciones fría y cálida.

Para controlar satisfactoriamente e impedir la invasión de malezas de pastos anuales en tierras de pastoreo resulta imprescindible prevenir la producción de semillas de malezas. La repetición de aplicaciones en años subsiguientes debería eliminar la mayor parte de las semillas viables

Se deberá demorar la utilización de las superficies tratadas como pastura para alentar el crecimiento de las plantas perennes deseables. Se alentará una transición satisfactoria si se permite la floración y el resembrado de las plantas perennes deseables en la zona tratada.

Aplique de 9 a 12 onzas líquidas de este producto por acre para controlar o inhibir muchas malezas, incluidas downy brome, cheatgrass, ye (centeno) para cereal y jointed goatgrass en tierras de pastoreo. Aplique cuando la mayoría de las plantas de brome se encuentren en la etapa de floración temprana y antes de que las plantas, incluidas las cabezuelas, cambien de color. Si permite el crecimiento secundario de malezas en la primavera después de las lluvias reducirá aún más la reserva de semillas y alentará la conversión del pasto perenne en lugares con malezas. Se recomienda realizar una aplicación en otoño en aquellas zonas donde la humedad en primavera es habitualmente limitada y la germinación de totoño permite el crecimiento de malezas.

En el caso de plantas de medusahead, aplique 12 onzas líquidas de este producto por acre en la etapa de 3 hojas. La demora de la aplicación después de esta etapa causará un control inferior o inaceptable. El quemado controlado puede ser útil para eliminar la capa seca superficial producida por tallos de gramíneas en descomposición lenta antes de la aplicación. Permita que las plantas broten nuevamente antes de rociar después de haber quemado. Puede ser necesario repetir las aplicaciones en años subsiguientes para eliminar el banco de semillas antes de restablecer los pastos perennes deseables en tierras de pastoreo dominadas por medusahead.

Se podría producir una ligera decoloración de los pastos deseables pero éstos reverdecerán y volverán a crecer en tierra húmeda a medida que desaparezcan los efectos de este producto. No utilice sulfato de amonio cuando rocíe pastos de tierras de pastoreo con este producto. No se requiere período de espera entre el tratamiento y la utilización como alimento o pastura para el ganado.

10.0 APLICACIONES EN CULTIVOS

10.1 CÍTRICOS

Para usarse en Florida y Texas en Calamondin, Chironja, Cidro (citron), Híbridos Cítricos, Toronja, Kumquat, Limón, Lima, Mandarina (tangerine), Naranjas (todas), Pummelo, Mandarina Satsuma, Tangelo (ugli), Tangor.

Este producto se puede aplicar como rocío al voleo antes de sembrar (preparación del lugar), en medios de hileras (entre árboles, arbustos o enredaderas), franjas (en las hileras de árboles, arbustos o enredaderas), rociadores con pantalla, aplicaciones con enjugadores, rocío dirigido o tratamiento localizado.

Se pueden realizar aplicaciones con equipo con brazos, aplicadores por goteo controlado (CDA), rociadores con pantalla, bastones de mano y de alto volumen, lanzas, pistolas para huertos o con aplicadores de enjugadores, excepto como se indique.

Las siguientes instrucciones son específicas para Florida y Texas.

Para quemar o controlar las malezas indicadas abajo, aplique las proporciones recomendadas de este producto en 3 a 30 galones de agua por acre. Cuando la maleza tiene follaje denso, utilice de 10 a 30 galones de agua por acre.

Para goatweed, aplique de 3 a 4.5 pintas de este producto por acre. Aplique en 20 a 30 galones de agua por acre cuando las plantas están en crecimiento activo. Use 3 pintas por acre cuando las plantas tengan menos de 8 pulgadas de altura, y 4.5 pintas por acre cuando las plantas tengan más de 8 pulgadas de altura. Si la goatweed tiene más de 8 pulgadas de altura, agregar Kvovar I o Karmex puede mejorar el control. Consulte las etiquetas de los productos individuales para información específica sobre cultivos, dosis, restricciones geográficas y declaraciones preventivas.

Malezas perennes:

S = Supresión B = Quema PC = Control parcial C = Control ROUNDUP CUSTOM PARA USO ACUÁTICO Y TERRESTRE PROPORCIÓN POR ACRE

ESPECIES DE MALEZAS	1.5 PT	3 PT	4.5 PT	7.5 PT
Bermudagrass	В		PC	С
Guineagrass				
Texas y Florida Ridge	В	С	С	С
Florida Flatwoods		В	С	С
Paragrass	В	С	С	С
Torpedograss	S		PC	С

Permita como mínimo 1 día entre la última aplicación y la cosecha de cultivos cítricos. Para huertos de cidro (citron), aplique solamente como rocíos dirigidos.

1 **(**).2 Caña de azúcar

Este producto puede aplicarse en barbecho, antes de sembrar, pre emergencia o al momento de sembrar usando rociadores con capucha, rociadores con pantalla o aplicación con enjugador en medios de hileras, como tratamiento después de la cosecha, como tratamiento localizado o tratamiento foliar para regular el crecimiento de las plantas.

Antes de sembrar, pre emergencia, al momento de sembrar

Aplique este producto en o alrededor de los cultivos de caña de azúcar o en los campos antes de la emergencia de las cañas. No aplique a la vegetación en o alrededor de acequias, canales o estanques que contengan agua para riego.

Tratamiento localizado

Aplique este producto como tratamiento localizado en caña de azúcar. Para el control de la caña de azúcar espontánea o enferma, prepare una solución de 0.75 por ciento de este producto en agua y rocíe hasta mojar el follaje de la vegetación a controlar. La caña de azúcar espontánea o enferma debe tener por lo menos 7 hojas nuevas. Evite el contacto del rocío con las plantas de caña sanas porque puede causar daños graves o destruirlas. No utilice el follaje de la caña de azúcar tratada para alimentar animales después de la aplicación.

Tratamientos de barbecho

Este producto se puede utilizar como sustituto de labranza en campos en barbecho entre cultivos de caña de azúcar. Este producto también puede utilizarse para eliminar el último rastrojo de retoños de caña. Para quitar los últimos rastrojos de retoños de caña aplique de 6 a 7.5 pintas de este producto por acre en 10 a 40 galones de agua por acre a los nuevos brotes de al menos 7 nuevas hojas. Para labrar, deje transcurrir un lapso de 7 o más días después de la aplicación. Puede usar equipo de aplicación aérea. Pueden hacerse aplicaciones de hasta 4.5 pintas por acre con aplicación aérea en zonas en barbecho cuando hay suficiente zona de transición para evitar lesiones debido al arrastre a cultivos advacentes. Se pueden emplear mezclas de tanque con 2.4-D y dicamba.

Rociadores con capucha

Aplique este producto usando rociadores con capucha para controlar las malezas entre las hileras de caña de azúcar. Consulte la sección **EQUIPOS Y TÉCNICAS PARA LA APLICACIÓN** de esta etiqueta para obtener instrucciones de uso adicionales.

No permita el contacto de las malezas tratadas con el cultivo. Las gotas, la niebla, la espuma o las salpicaduras de la solución de herbicida que se depositan en la vegetación deseable pueden causar decoloración, atrofia o destrucción. Este daño es responsabilidad exclusiva de la persona encargada de la aplicación del producto.

Tratamiento foliar para regular el crecimiento de las plantas

No siembre en cultivos subsiguientes aparte de los siguientes durante 30 días después de la aplicación: Maíz (todos), soya, sorgo (millo), algodón, alfalfa, frijoles (todos), pasto para forraje, papas (irlandesas, dulces), trigo.

Cuando se aplica según las instrucciones en las condiciones descritas, este producto acelerará la maduración y extenderá el período de nivel alto de sacarosa en la caña de azúcar. Es eficaz en la caña de azúcar tanto de bajo tonelaje como de gran tonelaje. Como resultado de la desecación de la hoja, se puede esperar mejor quema de los desechos. De 2 a 3 semanas después de la aplicación, este producto puede causar que las hojas pasen de un ligero color amarillento a marrón pronunciado y se sequen, y los entrenudos superiores se acorten; puede morir el eje. La mayor parte del aumento de sacarosa se concentra en los nódulos superiores del tallo de la caña tratada. Para recuperar la mayor cantidad de azúcar donde se practica el descopado, durante la cosecha, pode en la base de la cuarta hoja. Antes de la aplicación, consulte con la autoridad de caña de azúcar en su estado o con su representante local de Monsanto acerca del grado de respuesta de sacarosa anticipado de la variedad de caña de azúcar a tratar.

Vea lo siguiente para las proporciones y los tiempos de aplicación en el estado donde se harán las aplicaciones. **NOTA:** Al tratar caña de azúcar bajo condiciones de maduración adversas, o cuando trate variedades menos receptivas, utilice la proporción más elevada dentro del rango recomendado.

FLORIDA—Aplique de 6 a 14 onzas líquidas de este producto por acre de 3 a 5 semanas antes de la cosecha de la ÚLTIMA CANA SOCA SOLAMENTE.

HAWAII—Aplique de 10 a 24 onzas líquidas de este producto por acre de 4 a 10 semanas antes de la cosecha.

LOUISIANA—Aplique de 4 a 14 onzas líquidas de este producto por acre de 3 a 7 semanas antes de la cosecha de CAÑA SOCA SOLAMENTE.

PUERTO RICO—Aplique 6 onzas líquidas de este producto por acre de 3 a 5 semanas antes de la cosecha de CAÑA SOCA SOLAMENTE.

TEXAS—Aplique de 6 a 14 onzas líquidas de este producto por acre de 3 a 5 semanas antes de la cosecha de CAÑA SOCA SOLAMENTE.

La aplicación de este producto puede iniciar el desarrollo de los ojos en los retoños. Este producto no puede aumentar el contenido de sacarosa de la caña de azúcar en condiciones de buena maduración natural. No aplique a la caña de azúcar que se cosechará para la semilla. No utilice el forraje de la caña de azúcar tratada para alimentar animales después de la aplicación.

10.3 Tratamientos de barbecho químico

Aplique este producto durante intervalos de barbecho que preceden a la siembra, antes de sembrar o trasplantar, al momento de sembrar o pre emergencia de los cultivos vegetales. Al aplicar este producto antes de trasplantar o de la siembra directa de cultivos vegetales en mantillo plástico, hay que asegurarse de eliminar los residuos de este producto del

plástico antes de sembrar para evitar daños al cultivo. Los residuos se pueden eliminar con una sola aplicación de agua de 0.5 pulgadas, ya sea por lluvia o con un sistema de riego por aspersión. Asegórese de que el agua del enjuague salga del mantillo plástico y no entre en los agujeros para trasplantar. Las aplicaciones realizadas en la emergencia provocarán daños o serán fatales para las plántulas emergidas.

Evite el contacto de este herbicida con follaje, brotes verdes o tallos, cortezas, raíces expuestas (incluidas las que emergen del mantillo plástico) o frutos de cultivos, ya que podría ocasionar daños severos o destrucción de los cultivos. Las aplicaciones después de la cosecha o en barbecho deberán realizarse por lo menos 30 días antes de sembrar cualquier cultivo que no se mencione en la etiqueta.

10.4 Producción de panes de césped o panes de césped comercial

Antes de sembrar, pre emergencia, al momento de sembrar, renovación, preparación del lugar

Este producto controla la mayoría de la vegetación existente antes de la renovación del césped o de establecer céspedes cultivados para semilla o tepes. Realice las aplicaciones antes, durante o después de sembrar o para renovación. Para lograr máximo control de la vegetación existente, demore la siembra para determinar si se produce algún crecimiento de partes de plantas subterráneas que no fueron alcanzadas por el tratamiento. En lugares donde la vegetación existente esté creciendo y el césped esté bajo un programa de siega, aplique este producto después de omitir por lo menos un corte del césped para permitir un crecimiento suficiente a fin de que el rocío sea interceptado por las plantas. Cuando sea necesario repetir el tratamiento, permita que las plantas se desarrollen lo suficiente antes de volver a tratar. Para pastos de estación cálida, como bermudagrass, las aplicaciones en verano u otoño brindan el mejor control. Se pueden utilizar equipos al voleo para controlar restos de tepes o de otra vegetación no deseada después de cosechar los tepes.

No remueva la tierra ni las partes de la planta que estén bajo tierra antes del tratamiento. La labranza o las técnicas de renovación como corte vertical; perforación o rebanado deben esperar 7 días después de la aplicación a fin de permitir la absorción adecuada en las partes de la planta que estén bajo tierra. Si las dosis de aplicación ascienden a 72 onzas líquidas por acre o menos, no se requiere un período de espera entre el tratamiento y la alimentación o pastoreo del ganado. Si la proporción es mayor de 4.5 pintas por acre, retire el ganado doméstico antes de aplicar y espere 8 semanas después de haber efectuado la aplicación para utilizar como pastura o para cosechar. Para todos los cultivos no indicados en esta etiqueta, las aplicaciones se deben realizar al menos 30 días antes de sembrar. Las aplicaciones deben efectuarse antes de la emergencia del cultivo para evitar daños.

Rociadores con pantalla

Aplique de 1.5 a 4.5 pintas de este producto en 10 a 20 galones de agua por acre para controlar las malezas entre las hileras de semilla para pasto. La siembra uniforme en hileras rectas facilita las aplicaciones con rociador con pantalla. Se obtienen mejores resultados cuando el cultivo de semilla de pasto es suficientemente pequeño como para pasar con facilidad por las pantallas de protección. Para instrucciones adicionales, vea Aplicadores con pantalla y con capucha en la sección Equipo selectivo.

Cualquier tipo de contacto de este producto con vegetación que no se desea incluir en el tratamiento podría causar daño. Este daño es responsabilidad exclusiva de la persona encargada de la aplicación del producto.

Aplicaciones con enjugador por la parte superior

Los aplicadores se deben ajustar de manera que el punto de contacto del enjugador esté al menos 2 pulgadas por encima de la vegetación deseable. Las malezas deben tener al menos 6 pulgadas de altura más que la vegetación deseable. Se pueden obtener mejores resultados cuando se expone una mayor cantidad de la maleza a la solución de herbicida. Las malezas sin contacto con la solución de herbicida no serán afectadas. Esto puede ocurrir en lugares donde las malezas están muy concentradas, cuando la infestación es grave o donde la altura de las malezas es variada, lo que no permite que todas entren en contacto con el herbicida. En estas instancias, tal vez sea necesario repetir el tratamiento. Para instrucciones adicionales, vea Aplicadores con enjugador en la sección Equipo selectivo.

El contacto de la solución de herbicida con vegetación deseable puede provocar daño o destrucción.

Tratamiento localizado

Aplique este producto como una solución al 1 por ciento antes del despunte de los pastos cultivados para semilla. Los cultivos que reciban el rocío en el área tratada morirán. Intente evitar el arrastre o rocío fuera del área que no sea el objetivo por la misma razón. Se pueden utilizar equipos de mano para controlar restos de tepes o de otra vegetación no deseada después de cosechar los tepes.

Creación de hileras en ryegrass anual

Utilice de 12 a 24 onzas líquidas de este producto por acre. Use proporciones superiores cuando el ryegrass tiene una altura de más de 6 pulgadas. Se obtienen mejores resultados cuando las aplicaciones se realizan antes de que las plantas de ryegrass alcancen 6 pulgadas de alto.

Configure las alturas de las boquillas de modo que permita el espacio deseado entre hileras y al mismo tiempo evite que gotas, rocíos finos o arrastre del rocío entre en contacto con las plantas de ryegrass no tratado. Se recomienda utilizar boquillas de baja presión o boquillas de goteo diseñadas para concentrar la aplicación en una franja estrecha.

El cultivador asume toda la responsabilidad por la pérdida de cultivos a causa de la aplicación indebida de este producto.

11.0 APLICACIONES ALREDEDOR DEL ESTABLECIMIENTO

11.1 Control general de malezas y recortes y bordes

Este producto se puede utilizar para controlar malezas anuales, perennes y matorrales leñosos que se encuentran en todo el establecimiento, incluidos cimientos de edificaciones, en y a lo largo de cercas, en acequias y canales secos, a lo largo de bordes de acequias, caminos de la granja, barreras de protección, antes de sembrar ornamentos paisajistas y en zonas donde se guardan equipos.

Este producto se puede mezclar en tanque con los siguientes productos, siempre y cuando el producto específico utilizado esté registrado para el uso en estos lugares no cultivados. Consulte las etiquetas de estos productos para informarse sobre las áreas de uso y las dosis de aplicación aprobadas. Para malezas anuales, utilice 1.5 pintas de este producto por acre cuando las malezas tienen menos de 6 pulgadas de altura, 2.25 pintas por acre cuando las malezas tienen 6 a 12 pulgadas de altura y 3 pintas por acre cuando las malezas tienen más de 12 pulgadas de altura. Para las malezas perennes, aplique de 3 a 7.5 pintas por acre en estas mezclas de tanque. Para mezclas de tanque con estos productos con rociadores de mochila, pistolas de mano y otras aplicaciones de rocío para mojar de alto volumen, vea las proporciones específicas en la sección MALEZAS ANUALES para equipo de mano o de alto volumen de esta etiqueta.

Arsenal Krovar I DF Ronstar 50 WP Banvel/Clarity Oust XP Sahara Barricade 65WG Pendulum 3.3 EC simazine diuron Pendulum WDG Surflan Endurance Plateau Telar Princep DF Escort Vanquish Karmex DF Princep Liquid 2,4-D

Este producto más las mezclas de tanque de dicamba no se pueden aplicar por rocío aéreo en California.

1 1.2 Invernaderos/Cobertizos

Este producto se puede usar para controlar las malezas que estén creciendo en o alrededor de los invernaderos y cobertizos. No debe haber vegetación deseable durante la aplicación y los equipos de ventilación deben estar apagados.

1 1.3 Segado Químico

Este producto inhibe los pastos perennes indicados en esta sección para servir como sustituto de la siega. Utilice 4.5 onzas líquidas de este producto por acre para el tratamiento de Kentucky bluegrass. Utilice 6 onzas líquidas de este producto por acre para el tratamiento de festuca alta, festuca fina, orchardgrass, quackgrass o reed canarygrass. Aplique 12 onzas líquidas por acre de este producto para el tratamiento de bermudagrass. Aplique 48 onzas líquidas de este producto por acre para el tratamiento de torpedograss o paragrass. Aplique los tratamientos en 10 a 20 galones de solución de rocío por acre. Se puede efectuar una aplicación de segado químico junto a acequias de la grania y en otros lugares del establecimiento.

Use solo en los lugares donde se puede tolerar cierto daño o decoloración temporal en pastos perennes.

1 2.0 TIPOS DE MALEZAS CONTROLADAS

Use siempre la proporción más alta de este producto por acre, dentro de las proporciones, cuando las malezas son densas o cuando crecen en un área no tocada (no cultivada).

Puede haber un resultado inferior cuando se traten malezas cubiertas con mucho polvo. Para las malezas que han sido segadas, pastadas o cortadas, permita que vuelvan a crecer antes del tratamiento.

Consulte las secciones siguientes para conocer las proporciones recomendadas para el control de malezas anuales y perennes, matorrales leñosos y árboles. Para las malezas perennes, matorrales leñosos y árboles difíciles de controlar, donde las plantas crecen en condiciones de estrés, o donde la infestación es densa, use de 4.5 a 8 cuartos de galón por acre de este producto para obtener meiores resultados.

1 2.1 Malezas anuales

Aplique a pastos anuales en crecimiento y malezas de hoja ancha.

Deje pasar por lo menos 3 días antes de remover la vegetación tratada. Después de este período las malezas se pueden cortar, labrar o quemar. Vea los usos recomendados y las instrucciones específicas de aplicación en MODO DE EMPLEO, INFORMACIÓN SOBRE EL PRODUCTO, INSTRUCCIONES de MEZCLA y APLICACIÓN.

Use 1.5 pintas por acre si las malezas tienen menos de 6 pulgadas de altura o largo de los tallos y 1 a 4 cuartos de galón por acre si las malezas tienen más de 6 pulgadas de altura o largo de los tallos o cuando las malezas crecen en condiciones de estrés.

Para aplicaciones de rocío para mojar, aplique una solución de 0.5 por ciento de este producto a las malezas que tengan menos de 6 pulgadas de altura o largo de los tallos. Haga la aplicación antes de la formación de semillas para el pasto, o la formación de brotes para las malezas de hoja ancha. Para las malezas anuales que tienen más de 6 pulgadas de altura o las malezas más pequeñas que crecen en condiciones de estrés, use una solución de 0.75 a 1.5 por ciento. Use la dosis más alta para las especies difíciles de controlar o las malezas de más de 24 pulgadas de altura.

ESPECIES DE MALEZAS

Anoda, spurred Cocklebur*
Balsamapple** Copperleaf, hophornbeam
Barley* Copperleaf, Virginia
Barley, little* Coreopsis, plains/tickseed*

Barnyardgrass* Corn* Bassia, fivehook Crabgrass* Bittercress* Cupgrass, woolly* Dwarfdandelion* Bluegrass, annual* Bluegrass, bulbous* Eclipta* Falsedandelion* Brome, downy? Falseflax, smallseed* Brome, Japanese⁴ Fiddleneck Broomsedge Filaree

Buttercup* Filaree
Castorbean Fleabane, annual*

Cheatgrass* Fleabane, hairy (Conyza bonariensis)*

Cheeseweed (Malva parviflora) Fleabane, rough*
Chervil* Foxtail*
Chickweed* Foxtail, Carolina*

Geranium, Carolina Ragweed, giant Goatgrass, jointed* Rice, red Goosegrass Rocket, London* Groundsel, common* Rocket, Yellow Henbit Rve* Horseweed/Marestail(Conyza canadensis) Ryegrass³ Sandbur, field* itchgrass* Johnsongrass, seedling Sesbania, hemp

Johnsongrass, seedling Sesbania, flemp
Junglerice Shattercane*
Knotweed Shepherd's-purse*
Kochia Sicklepod
Lamb's-quarters* Signalgrass, broadleaf*

Smartweed, ladysthumb* Lettuce, prickly* Smartweed, Pennsylvania* Mannagrass, eastern* Mayweed Sorghum, grain (milo)* Medusahead* Sowthistle, annual Morningglory (Ipomoea spp) Spanishneedles*** Mustard blue* Speedwell, Corn* Speedwell, purslane* Mustard tansy* Mustard, tumble* Sprangletop* Mustard, wild* Spurge, annual

Mustard, umole* Spurge, annual
Nightshade, black* Spurge, prostrate*
Oats Spurge, spotted*
Panicum, fall* Starthistle, yellow
Panicum, Texas*
Pennycress, field* Spurfley.

Pepperweed, Virginia* Teaweed / Prickly sida Pigweed* Thistle, Russian Puncturevine Velvetieaf Purslane, common Wheat* Pusley, Florida Wild oats* Ragweed, common* Witchgrass*

*Cuando use equipos de aplicación al voleo en el terreno (aplicaciones aéreas o rociadores con brazos que usen boquillas tipo abanico plano), estas especies serán controladas total o parcialmente usando 12 onzas líquidas de este producto por acre. Las aplicaciones deben hacerse usando de 3 a 10 galones de volumen de la sustancia portadora por acre. Use boquillas que garanticen una cobertura completa del follaje y aplique el tratamiento cuando las malezas estén en su etapa temprana de crecimiento.

** Aplique con equipo de mano solamente.

*** Aplique 3 pintas de este producto por acre.

12.2 Malezas perennes

Se obtienen mejores resultados cuando las malezas perennes son tratadas después de alcanzar la etapa reproductiva de su crecimiento (formación de las semillas para pastos y formación de brotes para malezas de hoja ancha). En las plantas sin flores, los mejores resultados se obtienen cuando las plantas alcanzan la madurez. En muchas situaciones, es necesario realizar tratamientos antes de esas etapas. En esas condiciones, use la dosis de aplicación más alta dentro del rango.

- Aplique cuando las plantas que sean el objetivo estén en crecimiento activo. No aplique cuando las plantas estén en condiciones de estrés por sequía.
- Asegúrese de lograr una cobertura completa cuando efectúe tratamientos de rocío para mojar mediante un equipo de mano.
- Cuando se utilice equipo manual para tratamientos puntuales localizados de bajo volumen, aplique una solución de 4 al 8 por ciento de este producto.
- Para labrar o segar, deje transcurrir un lapso de 7 días o más después de haber aplicado el producto. Si las malezas han sido labradas o segadas, no aplique el tratamiento hasta que el crecimiento alcance las etapas especificadas.

- El tratamiento otoñal debe aplicarse antes de una helada agresiva.
- Tal vez sea necesario repetir los tratamientos para controlar malezas que se regeneran de partes subterráneas o semillas.

Especies de malezas	Proporción (cuartos por acre)	% de solución de mano
Alfalfa*	0.7	1.5
Alligatorweed*	3	1.3

Aplique cuando la mayoría de las plantas que sean el objetivo se encuentren en la etapa de floración. Será necesario repetir las aplicaciones para mantener el control.

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Anise (fennel)	1.5-3	1 - 1.5	
Bahiagrass	2.3 - 3.75	1.5	
Beachgrass, European			
(Ammophila arenaria)		3.5	

Aplique una solución al 8 por ciento de este producto, más de 0.5 a 1.5 por ciento de un surfactante no iónico en una base de rocío para mojar de bajo volumen. Se obtienen mejores resultados si las aplicaciones se realizan cuando la planta beachgrass europea está en crecimiento activo alcanzando las etapas de desarrollo de bota a despunte completo. Realice las aplicaciones antes de que pierda más del 50% del color verde de las hojas en el otoño. Puede ser necesario repetir las aplicaciones para tratar los rezagos. Observe las zonas tratadas antes de volver a sembrar vegetación deseable. Para el control selectivo de beachgrass europea mediante aplicación con enjugador, aplique una solución al 33.3 por ciento de este producto, más de 1 a 2.5 por ciento de un surfactante no iónico durante el crecimiento activo. Evite el contacto de la solución herbicida con la vegetación deseable. Se puede mejorar el rendimiento enjugando las plantas en direcciones opuestas. El mejor rendimientos e obtiene procurando el máximo contacto del equipo de enjugado

con las liujas iliulviuvales.			
Bentgrass*	1	1.5	
Bermudagrass	4	1.5	
Aplique a las plantas que sean el objet	tivo cuando apar	ezcan las cabezuelas.	
Bermudagrass, de agua (knotgrass)	1	1.5	
Bindweed, de campo	2.3 - 3.75	1.5	

Aplique de 3 a 3.75 cuartos de galón de este producto por acre como rocío al voleo al ceste del Río Mississippi y de 2.3 a 3 cuartos de galón de este producto por acre al este del Río Mississippi. Aplique cuando la mayoría de las plantas que sean el objetivo se encuentren en la etapa de floración o después de ella. El desarrollo de nuevas hojas lindica crecimiento activo. Para obtener los mejores resultados, aplique al finalizar el everano o en otoño.

Bluegrass, Kentucky 1.5 – 2.3 0.75

Aplique cuando la mayoría de las plantas que sean el objetivo hayan alcanzado la etapa de desarrollo de brotación tardía a floración. Si lo aplica antes de la etapa de bota, puede obtener menor control del deseado. En el otoño, aplique antes de que las plantas se pongan marrones.

Blueweed, Texas 2.3 – 3.75 1.5

Aplique de 3 a 3.75 cuartos de galón de este producto por acre como rocío al voleo al oeste del Río Mississippi y de 2.3 a 3 cuartos de galón de este producto por acre al este del Río Mississippi. Aplique cuando la mayoría de las plantas que sean el objetivo se encuentren en la etapa de floración o después de ella. El desarrollo de nuevas hojas indica crecimiento activo. Para obtener los mejores resultados, aplique al finalizar el verano o en otoño.

Brackenfern 2.3 – 3 0.75 – 1

Aplique a las frondas completamente extendidas que tengan por lo menos 18 pulgadas de longitud.

Bromegrass, smooth 1.5 – 2.3 0.75

Aplique cuando la mayoría de las plantas que sean el objetivo hayan alcanzado la etapa de desarrollo de brotación tardía a floración. Si lo aplica antes de la etapa de bota, puede obtener menor control del deseado. En el otoño, aplique antes de que las plantas se pongan marrones.

 Bursage, woolly-leaf
 1.5

 Canarygrass, reed
 1.5 - 2.3
 0.75

Aplique cuando la mayoría de las plantas que sean el objetivo hayan alcanzado la etapa de desarrollo de brotación tardía a floración. Si lo aplica antes de la etapa de bota, puede obtener menor control del deseado. En el otoño, aplique antes de que las plantas se popera margnes

Cattail 2.3 – 3.75 0.75

Aplique cuando las plantas que sean el objetivo estén en crecimiento activo y en la etapa de floración temprana a completa. Se obtienen mejores resultados cuando la aplicación se realiza durante los meses de verano u otoño.

| Clover; (trébol); rojo, blanco | 2.3 - 3.75 | 1.5 | Cogongrass | 2.3 - 3.75 | 1.5 |

Aplique cuando el cogongrass tenga por lo menos 18 pulgadas de altura y esté en crecimiento activo a finales de verano o en otoño. Debido a la naturaleza densa de la vegetación que puede impedir la correcta cobertura del rocio, o a las etapas de crecimiento irregulares, pueden ser necesarios varios tratamientos para lograr el control.

 Vea Sección

 Cordgrass
 8.1
 2–8

Programe las aplicaciones para permitir por lo menos 6 horas antes de que la marea cubra las plantas tratadas. Al aplicar rocío para mojar con equipo de mano, use una solución de 2 a 8 por ciento de este producto. Asegúrese de cubrir completamente las concentraciones de plantas, pero no rocíe hasta el punto de escurrimiento. Siga las instrucciones específicas en la Sección 8.1 Zonas acuáticas.

Cutgrass, giant* 3

Será necesario repetir las aplicaciones para mantener el control, particularmente donde la vegetación esté parcialmente sumergida en agua. Permita un recrecimiento sustancial hasta la etapa de 7 a 10 hojas antes de repetir la aplicación.

Dallisgrass 2.3 - 3.75 1

Dandelion	2.3 - 3.75	1.5	Orchardgrass	1.5 – 2.3	0.75
Oock, curly	2.3 – 3.75	1.5	Aplique cuando la mayoría de la de desarrollo de brotación tardía	s plantas que sean el objet	tivo hayan alcanzado la e
Oogbane, hemp	3	1.5	obtener menor control del dese	a noración, or io aplica ant eado. En el otoño, aplique	os de la etapa de dota, pi antes de que las nianta
		el objetivo hayan alcanzado la obtener los mejores resultados,	pongan marrones.	zeo: z.i. o. otono, zpiiquo	ances de que las planta
napa de desarrono de brotación aplique al finalizar el verano o		obtener los mejores resultados,	Pampasgrass	2.3 - 3.75	1.5
escue (excepto alta)	2.3 – 3.75	1.5	Para grass	3	0.75
escue, alta	2.3	1.9	Puede ser necesario repetir las aplica	aciones. Permita el recrecimien	to hasta la etapa de 7 a 10 l
		jetivo hayan alcanzado la etapa	antes de repetir la aplicación.		
		ica antes de la etapa de bota,	Pepperweed, perennial	3	1.5
puede obtener menor control de		od dilios do la stapa de bota,	Phragmites*	2 – 3.75	0.75 - 1.5
Guineagrass	2.3	0.75	Para el control parcial de phrag bordean el Golfo de México, apli	gmites en Florida y los cor	ndados de otros estados
	as plantas que sean el obi	ietivo hayan alcanzado la etapa	pordean el Gono de Mexico, apli	ique 3.75 cuartos de galon	por acre como rocio al v
le crecimiento de por lo menos			o aplique una solución al 1.5 po otras áreas de los FF III. apliqu	ue de 2 a 3 cuartos de galón	n nor acre como rocio al v
lemlock, poison	1.5 - 3	0.75 - 1.5	o aplique una solución al 0.75 p	or ciento con equipo de ma	ano. Para obtener los mej
ea también la sección Inyecció	ón de tallos huecos de es	sta etiqueta.	otras áreas de los EE.UU., aplique o aplique una solución al 0.75 p resultados, realice el tratamient están creciendo activamente y e	to al final del verano o en	el otoño, cuando las pla
lorsenettle	2.3 - 3.75	1.5	la vegetación que puede impedir	en noración completa. Den	ildo a la naturaleza densi rocío o a las otanas do ci
lorseradish	3	1.5	miento irregulares, pueden ser n	necesarios varios tratamien	tos para lograr el control.
plique cuando la mayoría de	las plantas que sean e	l objetivo hayan alcanzado la	efectos visuales del control pued	den demorar.	
		obtener los mejores resultados,	Quackgrass	1.5 - 2.3	0.75
plique al finalizar el verano o	en otoño.		Aplique cuando la mayoría de l		
ceplant	1.5	1.5	8 pulgadas de altura (etapa de	e crecimiento de 3 a 4 ho	jas) y estén creciendo a
vy; German, cape	1.5 - 3	0.75 - 1.5	vamente.		
erusalem artichoke	2.3 - 3.75	1.5	Redvine*	1.5	1.5
ohnsongrass	1.5 - 2.3	0.75	Reed, giant	3 – 3.75	1.5
		etivo hayan alcanzado la etapa	Se obtienen mejores resultados		
		ntes de la etapa de bota, puede	verano y el otoño. Vea también l		
		e antes de que las plantas se	Ryegrass, perennial	1.5 – 2.3	0.75
ongan marrones.			Aplique cuando la mayoría de		
ikuyugrass	1.5 – 2.3	0.75	etapa de desarrollo de brotació		
napweed	3	1.5	bota, puede obtener menor cont plantas se pongan marrones.	uoi dei deseddo. Eli el 010	no, aprique aines de que
•	las plantas que sean e	I objetivo hayan alcanzado la	Salvinia, giant	3 - 3.75	2
		obtener los mejores resultados,	Aplique como una solución de roc		
plique al finalizar el verano o e		•	tante no iónico que contenga por l		
			voleo, aplique de 3 a 3.75 cuarto	os de galón de este product	o con un sistema surfact
			acuático aprobado que contenga	a 0.1% v/v de organosilico	na no iónica y 0.25% v/
otweed; Bohemian, Giant, Japanes	se (Polygonum bohemicum,	P. sachalinense and P. cuspidatum)	surfactante no iónico adhesivo d	dispersante en 3 a 40 galor	nes por acre como aplica
vección de tallos: Vea la sección Inj	yección de tallos huecos de e	esta etiqueta <u>.</u>	al voleo. Deje pasar por lo meno		
arta da tallas Carta las tallas limai	mas tab aicdab atsui atnomei	undo o tercer nódulo sobre la tierra.	producto no proporciona control		e sumergidas o que tenga
<u>orte de tanos:</u> Corte los tanos himpi	iamente lasto aeralo del segi				
		n al 50 por ciento de este producto en	mayor parte de su follaje bajo ag		
plique inmediatamente 0.36 onzas lío "pozo" o entrenudo restante. Asegúi	quidas (10 ml) de una solución rese de que el material elimin	n al 50 por ciento de este producto en ado de la parte superior de la planta	Smartweed, swamp	2.3 – 3.75	1.5
plique inmediatamente 0.36 onzas lío "pozo" o entrenudo restante. Asegúi e recoja y deseche con cuidado para	quidas (10 ml) de una solución rese de que el material elimin a evitar que tenga contacto co	n al 50 por ciento de este producto en ado de la parte superior de la planta on el suelo y regenere plantas de los			1.5 0.75
plique inmediatamente 0.36 onzas líd "pozo" o entrenudo restante. Asegúi e recoja y deseche con cuidado para rotes. Se recomienda el uso de una b	quidas (10 ml) de una solució rese de que el material elimin a evitar que tenga contacto co barrera biológica como cartón,	n al 50 por ciento de este producto en ado de la parte superior de la planta on el suelo y regenere plantas de los plywood o una lámina de plástico.	Smartweed, swamp Spatterdock Aplique cuando la mayoría de l	2.3 – 3.75 3 las plantas estén en flora	0.75 ción completa. Para obte
plique inmediatamente 0.36 onzas líd "pozo" o entrenudo restante. Asegún e recoja y deseche con cuidado para rotes. Se recomienda el uso de una b I total combinado para todos los trat	quidas (10 ml) de una solución rese de que el material elimin a evitar que tenga contacto co barrera biológica como cartón, amientos no debe exceder 8 c	n al 50 por ciento de este producto en ado de la parte superior de la planta on el suelo y regenere plantas de los phywood o una lámina de plástico. uartos de galón por acre. A razón de	Smartweed, swamp Spatterdock Aplique cuando la mayoría de l resultados óptimos, aplique dun	2.3 – 3.75 3 las plantas estén en flora	0.75 ción completa. Para obte
plique inmediatamente 0.36 cnzas líd "pozo" o entrenudo restante. Asegán e recoja y deseche con cuidado para rotes. Se recomienda el uso de una b l'total combinado para todos los trat 0 ml de una solución al 50%, puede	quidas (10 ml) de una solución rese de que el material elimin a evitar que tenga contacto co barrera biológica como cartón, amientos no debe exceder 8 c	n al 50 por ciento de este producto en ado de la parte superior de la planta no el suelo y regenere plantas de los plywood o una lámina de plástico. uartos de galión por acre. A razón de O tallos por acre.	Smartweed, swamp Spatterdock Aplique cuando la mayoría de l resultados óptimos, aplique dun Spurge, leafy*	2.3 – 3.75 3 las plantas estén en flora	0.75 ción completa. Para obte u otoño. 1.5
plique inmediatamente 0.36 onzas líc "pozo" entrenudo restante. Asegún e recoja y descehe con cudado para rotes. Se recomienda el uso de una b total combinado para todos los trato 0 ml de una solución al 50%, puede antana	quidas (10 ml) de una solución rese de que el material elimina a evitar que tenga contacto co bamera biológica como cartón, amientos no debe exceder 8 o cubrir aproximadamente 1500	n al 50 por ciento de este producto en ado de la parte superior de la planta on el suelo y regenere plantas de los phywood o una lámina de plástico. uuartos de galón por acre. A razón de 0 tallos por acre. 0.75 — 1	Smartweed, swamp Spatterdock Aplique cuando la mayoría de l resultados óptimos, aplique dun Spurge, leafy* Starthistle, yellow	2.3 – 3.75 3 las plantas estén en flora	0.75 ción completa. Para obte u otoño. 1.5 1.5
plique immediatamente 0.36 onzas líd "pozo" o entrenudo restante. Asegúr recoja y descahe con cuidado para rotes. Se recomienda el uso de una b total combinado para todos los trato 0 ml de una solución al 50%, puede antana plique cuando la mayoría de	quidas (10 ml) de una solución rese de que el material elimina a evitar que tenga contacto co bamera biológica como cartón, amientos no debe exceder 8 c cubrir aproximadamente 150 las plantas que sean el	n al 50 por ciento de este producto en ado de la parte superior de la planta m el suelo y regenere plantas de los phywood o una lámina de plástico. uarins de galón por acre. A razón de 0 tallos por acre. 0.75 — 1 objetivo se encuentren en la	Smartweed, swamp Spatterdock Aplique cuando la mayoría de l resultados óptimos, aplique dun Spurge, leafy* Starthistie, yellow Sweetpotato, wild*	2.3 – 3.75 3 las plantas estén en flora rante los meses de verano – –	0.75 ción completa. Para obte u otoño. 1.5 1.5
olique inmediatamente 0.36 onzas líd "pozo" o entrenudo restante. Asegún e recoja y deseche con cuidado para otes. Se recomienda el uso de una la total combinado para todos los trata om de una solución al 50%, puede antana plique cuando la mayoría de tapa de floración o después o	quidas (10 ml) de una solución rese de que el material elimina e vitar que tenga contacto co aarrera biológica como cartón, amientos no debe exceder 8 c cubrir aproximadamente 150 las plantas que sean el de ella. Utilice dosis má	n al 50 por ciento de este producto en ado de la parte superior de la planta on el suelo y regenere plantas de los phywood o una lámina de plástico. uuartos de galón por acre. A razón de 0 tallos por acre. 0.75 — 1	Smartweed, swamp Spatterdock Aplique cuando la mayoría de l resultados óptimos, aplique dun Spurge, leafy* Starthistle, yellow Sweetpotato, wild* Aplique cuando la mayoría de l	2.3 – 3.75 3 las plantas estén en flora rante los meses de verano las plantas que sean el o	0.75 ción completa. Para obte u otoño. 1.5 1.5 1.5 bjetivo se encuentren e
ilique inmediatamente 0.36 onzas líc "pozo" o entrenudo restante. Asegúi recoja y deseche con cuidado para otes. Se recomienda el uso de una b total combinado para todos los trat l mi de una solución al 50%, puede antana bolique cuando la mayoría de apa de floración o después o canzado la etapa de crecimier	quidas (10 ml) de una solución rese de que el material elimina e evitar que tenga contacto co- camera biológica como cartón, amientos no debe exceder 8 c, cubrir aproximadamente, 150! las plantas que sean el de ella. Utilice dosis má nto leñoso.	n al 50 por ciento de este producto en ado de la parte superior de la planta on el suelo y regenere plantas de los ptywood o una lámina de plástico. unarios de galón por acre. A razón de 0 tallos por acre. 0.75 — 1 objetivo se encuentren en la s altas para plantas que han	Smartweed, swamp Spatterdock Aplique cuando la mayoría de l resultados óptimos, aplique dun Spurge, leafy* Starthistie, yellow Sweetpotato, wild*	2.3 – 3.75 3 las plantas estén en flora rante los meses de verano las plantas que sean el o	0.75 ción completa. Para obte u otoño. 1.5 1.5 1.5 bjetivo se encuentren e
ltique inmediatamente 0.36 onzas líd "pozo" entrenudo restante. Asegúr recoja y deseche con cuidado para tres. Se recomienda el uso de una bi- total combinado para todos los trati- torna de una solución al 50%, puede- intana oblique cuando la mayoría de para de floración o después o canzado la etapa de crecimien spedeza	quidas (10 ml) de una solución rese de que el material elimina e evitar que tenga contactor. Ca amera biológica como cartón, amientos no debe exceder 8 c cubrir aproximadamente 150. las plantas que sean el de ella. Utilice dosis mánto leñoso.	n al 50 por ciento de este producto en ado de la parte superior de la planta on el suelo y regenere plantas de los plywood o una lámina de plástico. uuartos de galón por acre. A razón de 0 tallos por acre. 0.75 — 1 objetivo se encuentren en la s altas para plantas que han	Smartweed, swamp Spatterdock Aplique cuando la mayoría de l resultados óptimos, aplique dun Spurge, leafy* Starthistle, yellow Sweetpotato, wild* Aplique cuando la mayoría de l	2.3 – 3.75 3 las plantas estén en flora ante los meses de verano	0.75 ción completa. Para obte u otoño. 1.5 1.5 1.5 bijetivo se encuentren e tir las aplicaciones. Perr
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lique inmediatamente 0.36 onzas lícipozo" o entrenudo resinte. Asegún recoja y descehe con cuidado para otes. Se recomienda el uso de una bitala combinado para todos los tratimil de una solución al 50%, puede initana objecto de floración o después o canzado la etapa de crecimiente specifica y composito de la para de floración o después o canzado la etapa de crecimiente specifica y composito de la para de floración o después de ción se realiza durante los roblicarse antes de una helada a fusa. American oblique cuando la mayoría de lapa de floración o después de ción se realiza durante los roblicarse antes de una helada a futos para de la para de floración o después de ción se realiza durante los roblicarse antes de una helada a rutolar plantas que se regenerá necesario repetir las aplicas en al 10 hojas antes de repetir la illikweed, common oblique cuando la mayoría de las plantas de seguina de la para despade de crecimiento de 3 a utilein, common apiergrass ghishade, silverleaf lique de 3 a 3.75 cuartos de galón sussipio y de 2.3 a 3 cuartos de galón sus portes de seguina de la pala de seguina de las plantas de las plantas de las plantas de seguina de las plantas que se producto para con aduros a dipuntos a las plantas de ne floración o cuando se de foración o cuando se de seguina de seguina de seguina de seguina de seguina de seguina de las plantas de seguina de las plantas de seguina de seguina de las plantas de seguina de seguina de las plantas de seguina de las plantas de seguina de las plantas de seguina de seguina de las plantas de las planta	quidas (10 ml) de una solución rese de que el materia el límina es de que el materia el límina e e vidar que tenga contacto contra provimadamente 150 cubrir aproximadamente 150 cubrir	nal 50 por ciento de este producto en ado de la parte superior de la planta on el suelo y regenere plantas de los phywood o una lámina de plástico. uartos de galón por acre. A razón de 0 tallos por acre. 0.75 — 1 objetivo se encuentren en la se altas para plantas que han 1.5 1 — 1.5 objetivo se encuentren en la res resultados cuando la aplio. El tratamiento otoñal debe 0.75 objetivo se encuentren en la res resultados cuando la aplio. El tratamiento otoñal debe 1.75 objetivo se encuentren en la res resultados cuando la aplio. El tratamiento otoñal debe 1.5 a la vegetación parcialmente crecimiento hasta la etapa de 1.5 en al este del Río Mississippi. Aplíque 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Smartweed, swamp Spatterdock Aplique cuando la mayoría de l resultados óptimos, aplique dun Spurge, leafy* Starthistle, yellow Sweetpotato, wild* Aplique cuando la mayoría de l etapa de floración o después de que la planta alcance la etapa d Thistle, artichoke Aplique cuando la mayoría de l etapa de brotación o después de 'Thistle, Canada 'Aplique cuando la mayoría de las de brotación o después de ella. esta etiqueta. Timothy Aplique cuando la mayoría de las de desarrollo de brotación tardía obtener menor control del desea pongan marrones. Torpedograss* Use las proporciones más bajas ciones más altas en condiciones repetir las aplicaciones para ma Trumpetcreeper* Tules, common Aplique cuando la mayoría de l etapa de brotación o después de en aparecer y puede que no ocu Vaseygrass Vetvetgrass Waterhyacinth Aplique cuando las plantas que sean de ella. Después de la aplicación, pu aparecer, y generalmente courre la ne las proporciones más altas recomend Waterlettuce Use las proporciones más altas	2.3 – 3.75 3 las plantas estén en flora rante los meses de verano	0.75 ción completa. Para obte u otoño. 1.5 1.5 1.5 bijetivo se encuentren e stir las aplicaciones. Perr ntes de repetir la aplicac 2 bijetivo se encuentren e 1.5 rvo se encuentren en la ef nyección de tallos huecos 1.5 rivo hayan alcanzado la ef es de la etapa de bota, pu antes de que las plantas 0.75 – 1.5 iones terrestres y las proj asa flotante. Será neces 1.5 1.5 bijetivo se encuentren e ción, el efecto visual taro 1.5 1.5 la etapa de brotación o des jets tarden 3 semanas o má ición dentro de 60 a 90 días. Is visuales más rápidos. 0.75 – 1 infestación de malezas
ique inmediatamente 0.36 onzas líc pozo o entrenudo restante. Asegún recoja y descehe con cuidade para rtes. Se recomienda el uso de una la total combinado para todos los trat mil de una solución al 50%, puede ntana líque cuando la mayoría de apa de floración o después o cantzado la etapa de crecimier spedeza osestrife, purple líque cuando la mayoría de apa de floración o después de líque cuando la mayoría de apa de floración o después de lícarse antes de una helada a tus, American líque cuando la mayoría de apa de floración o después de ción se realiza durante los r lícarse antes de una helada a tus, American líque cuando la mayoría de apa de floración o después de ción se realiza durante los r lícarse antes de una helada a tus, American líque cuando la mayoría de la después de ción se realiza durante los r lícarse antes de una helada a tus, American líque cuando la mayoría de la desarrollo de brotación tardía ultive, wirestem líque cuando la mayoría de las pl ura (etapa de crecimiento de 3 a ullein, common líque cuando la mayoría de las pl ura (etapa de crecimiento de 3 a ullein, common piergrass gintshade, silverleaf líque de 3 a 3.75 cuartos de galón sessispi y de 2.3 a 3 cuartos de galón sessispi y de 2.3 a 3 cuartos de galón sessispi y de 2.3 a 3 cuartos de galón sessispi y de 2.3 a 3 cuartos de galón sessispi y de 2.3 a 3 cuartos de galón sessispi y de 2.3 a 3 cuartos de galón sessispi y de 2.3 a 3 cuartos de galón ses de peden obtener resultados nuevas hojas indica crecimiento a ano en doño. Tos de las plantas que ten en floración o cuando se	quidas (10 ml) de una solución rese de que el materia el límina e evitar que tenga contacto a cuamera biológica como cartón, amientos no debe exceder 8 cubrir aproximadamente 150 las plantas que sean el de ella. Utilice dosis mánto leñoso. 23 3.75 2 las plantas que sean el de ella. Se obtienen mejo meses de verano u otoñ agresiva. 2 las plantas que sean el e ella. Se obtienen mejo meses de verano u otoñ agresiva. 2 las plantas que sean el e ella Se obtienen mejo meses de verano u otoñ agresiva. 2 las plantas que sean el el ella Se obtienen mejo meses de verano u otoñ agresiva. 2 las plantas que sean el el ella Se obtienen mejo meses de verano u otoñ agresiva. 2 las plantas que sean el objanta de partes subterránte de la Se obtienen mejo meses de verano u otoñ gresiva. Puede ser necesaran de partes subterránte de la Se obtienen mejo meses de verano u otoñ gresiva. Puede ser necesaran de partes subterránte de la Se obtienen mejo meses de verano u otoñ gresiva. Puede ser necesaran de partes subterránte de la Se obtienen mejo mejor de la deste producto por acre aplicación. 1.5 – 2.3 lantas que sean el objetivo te dobjetivo se neucentre forma de sete producto por acre sean el objetivo se neucentre forma de sete producto por acre sean el objetivo se neucentre forma de sete producto por acre sean el objetivo se neucentre forma de sete producto por acre sean el objetivo se neucentre forma de sete producto por acre sean el objetivo se neucentre forma de sete producto por acre sean el objetivo se neucentre forma de la companya d	nal 50 por ciento de este producto en ado de la parte superior de la planta m el suelo y regenere plantas de los phywood o una lámina de plástico. uarias de galón por acre. A razón de Otallos por acre. 0.75 — 1 Objetivo se encuentren en la sa altas para plantas que han 1.5 1 — 1.5 Objetivo se encuentren en la res resultados cuando la aplio. El tratamiento otoñal debe 0.75 Objetivo se encuentren en la res resultados cuando la aplio. El tratamiento otoñal debe 0.75 Objetivo se encuentren en la res resultados cuando la aplio. El tratamiento otoñal debe 1.5 El tratamiento otoñal debe encio repetir el tratamiento para esa y semillas. 0.75 a la vegetación parcialmente crecimiento hasta la etapa de 1.5 entro nocio al voleo al ceste del Río sa leste del Río Mississippi. Aplique n en la etapa de floración o después de formadas las bayas El desarrollo es resultados, aplique al finalizar el 0.75 has plantas que sean el objetivo	Smartweed, swamp Spatterdock Aplique cuando la mayoría de l resultados óptimos, aplique dun Spurge, leafy* Starthistie, yellow Sweetpotato, wild* Aplique cuando la mayoría de l etapa de floración o después de que la planta alcance la etapa di Thistle, artichoke Aplique cuando la mayoría de l etapa de brotación o después de etapa de brotación o después de Thistle, Canada Aplique cuando la mayoría de las de brotación o después de ella. esta etiqueta. Timothy Aplique cuando la mayoría de las de desarrollo de brotación tardía obtener menor control del dese pongan marrones. Torpedograss* Use las proporciones más bajas ciones más altas en condiciones repetir las aplicaciones para ma Trumpetcreeper* Tules, common Aplique cuando la mayoría de l etapa de brotación o después de en aparecer y puede que no ocu Vaseygrass Waterhyacinth Aplique cuando las plantas que sea de ella. Después de la aplicación, pu aparecer, y generalmente ocurre la ne las proporciones más altas recomend Waterlettuce	2.3 – 3.75 3 las plantas estén en flora ante los meses de verano	0.75 ción completa. Para obtu u otoño. 1.5 1.5 1.5 bijetivo se encuentren e stir las aplicaciones. Perintes de repetir la aplicac 2 bijetivo se encuentren en la efinyección de tallos hueco 1.5 ivo se encuentren en la efinyección de tallos hueco 1.5 ivo hayan alcanzado la efes de la etapa de bota, puantes de que las plantar 0.75 – 1.5 iones terrestres y las prolasa flotante. Será neces 1.5 1.5 bijetivo se encuentren e ción, el efecto visual taro 1.5 1.5 0.75 – 1 la etapa de brotación o des eles tarden 3 semanas o máción dentro de 60 a 90 días. so visuales más rápidos. 0.75 – 1 infestación de malezas diados de verano a invie

Aplique cuando las plantas se encuentren en la etapa de brotación o después de ella, pero antes del cambio de color del otoño. Para lograr el control óptimo es necesaria una completa cobertura. 1.5 - 2.3Wheatgrass, western 0.75

Aplique cuando la mayoría de las plantas que sean el objetivo hayan alcanzado la etapa de desarrollo de brotación tardía a floración. Si lo aplica antes de la etapa de bota, puede obtener menor control del deseado. En el otoño, aplique antes de que las plantas se pongan marrones.

Otras plantas perennes indicadas en esta etiqueta — Aplique de 2.3 a 3.75 cuartos de galón de este producto por acre como rocío al voleo o como solución de 0.75 a 1.5 por ciento con equipo de mano. Aplique cuando las plantas que sean el objetivo estén creciendo activamente y deben haber alcanzado la etapa de crecimiento temprano de

12.3 Matorrales leñosos y árboles

Aplique este producto después de la expansión completa de las hojas, a menos que se indique lo contrario. Utilice una proporción mayor para plantas más grandes y/o zonas de crecimiento más densas. En enredaderas, utilice la proporción máxima para plantas que han alcanzado la etapa de crecimiento leñoso. Se obtienen mejores resultados cuando la aplicación se realiza a finales del verano o en otoño, después de la formación de frutos. Aplique cuando las plantas estén en crecimiento activo. Para lograr el mejor control es necesario una completa cobertura. Evite aplicar a plantas afectadas por la sequía. En zonas áridas, se obtienen los mejores resultados cuando las aplicaciones se realizan entre primavera y comienzos de verano, cuando las especies de matorrales tienen gran contenido de humedad y están en floración.

Asegúrese de lograr una cobertura completa cuando realice tratamientos de rocío para mojar con un equipo de mano.

Cuando use equipos de mano para tratamientos localizados con rocío dirigido de bajo volumen, aplique una solución del 4 al 8 por ciento de este producto.

Es posible que los síntomas no aparezcan antes de las heladas o del envejecimiento con tratamientos de otoño.

Para labrar, segar o eliminar, deje transcurrir un lapso de 7 días o más después de haber aplicado el producto. Tal vez sea necesario repetir el tratamiento para controlar plantas que se regeneran de partes subterráneas o semillas. Se aceptan algunos colores otoñales en especies de hoja caduca no deseables siempre y cuando no se haya producido una importante caída de las hojas. El rendimiento será inferior si se realizan tratamientos en otoño, después de una helada.

	Proporción por difusión	
	(cuarto de galón	% Solución Rocío para mojar
Especies de malezas	por acre)	a mano
Alder	2.3 – 3	0.75 – 1.2
Ash*	1.5 – 3.75	0.75 - 1.5
Aspen, quaking	1.5 – 2.3	0.75 – 1.2
Bearclover (Bearmat)*	1.5 - 3.75	0.75 - 1.5
Beech*	1.5 – 3.75	0.75 – 1.5
Birch	1.5	0.75
Blackberry	2.3 – 3	0.75 - 1.2
Blackgum	1.5 - 3.75	0.75 - 1.5
Bracken	1.5 – 3.75	0.75 - 1.5
Broom; French, Scotch	1.5 - 3.75	1.2 - 1.5
Buckwheat, California*	1.5 – 3	0.75 - 1.5
Cascara*	1.5 - 3.75	0.75 - 1.5
Castorbean	1.5 - 3.75	1.5
Vea también la sección Inyecci	ón de tallos huecos d	e esta etiqueta.
Catsclaw*		1.2 – 1.5
Para control parcial, aplique es hojas nuevas estén completam	te producto cuando pi iente desarrolladas.	or lo menos el 50 por ciento de las
Ceanothus*	1.5 - 3.75	0.75 - 1.5
Chamise*	1.5 - 3.75	0.75
Cherry; bitter, black, pin	1.5 - 3.75	1-1.5
Cottonwood, eastern	1.5 - 3.75	0.75 - 1.5
Coyote brush	2.3 - 3	1.2 - 1.5
Para control, aplique este prod nuevas estén completamente d	ucto cuando por lo m lesarrolladas.	enos el 50 por ciento de las hojas
Cypress; swamp, bald	1.5 - 3.75	0.75 - 1.5
Deerweed	1.5 - 3.75	0.75 - 1.5
Dewberry	2.3 - 3	0.75 - 1.2
Dogwood*	3 - 3.75	1-2
Elderberry	1.5	0.75
Elm*	1.5 - 3.75	0.75 - 1.5
Eucalyptus, bluegum		1.5
Para control de los rebrotes de cuando los brotes tengan una a rtura completa.	e eucalipto, aplique e altura de 6 a 12 pies.	ste producto con equipo de mano Asegúrese de conseguir una cobe-
Gallberry	1.5 - 3.75	0.75 - 1.5
		0.75 1.5
Gorse*	1.5 - 3.75	0.75 - 1.5
Gorse* Hackberry, western	$\frac{1.5 - 3.75}{1.5 - 3.75}$	0.75 - 1.5 0.75 - 1.5
Gorse* Hackberry, western Hasardia*		

Hazel	1.5	0.75
Hickory*	3 – 3.75	1-2
Honeysuckle	2.3 – 3	0.75 – 1.2
Hombeam, American*	1.5 – 3.75	0.75 - 1.5
Huckleberry	1.5 – 3.75	0.75 - 1.5
lvy, poison	3 – 3.75	1.5
Kudzu	3	1.5
Locust, black*	1.5-3	0.75 – 1.5
Madrone resprouts*	AL DE PLEE	1.5
Magnolia, sweetbay	1.5 – 3.75	0.75 – 1.5
Manzanita*	1.5 – 3.75	0.75 – 1.5
Maple, red	1 – 3.75	$\frac{0.75}{0.75} - 1.2$
Para control, aplique una solución de 0.7 estén completamente desarrolladas. Para producto por acre como rocío al voleo.	control parcial, aplique o	
Maple, sugar -		0.75 - 1.2
Para control, aplique una solución d por lo menos el 50 por ciento de las	hojas nuevas estén	completamente desarrolladas.
Maple, vine*	1.5 – 3.75	0.75 - 1.5
Monkey flower*	1.5 - 3	0.75 - 1.5
Oak; black, white*	1.5-3	0.75 - 1.5
Oak; northern pin	1.5-3	0.75 - 1.2
Para control, aplique este producto		s el 50 por ciento de las hojas
nuevas estén completamente desar Oak, poison	7011adas. 3 – 3.75	1.5
Puede requerirse repetir las aplicad	ciones para manteno	
otoñales deben aplicarse antes de o		
Oak, post	2.3 – 3	0.75 - 1.2
Oak, red	-	0.75 - 1.2
Para control, aplique una solución d		
por lo menos el 50 por ciento de las		
Oak, scrub*	1.5 – 3	0.75 - 1.5
Oak, southern red	1.5 - 3.75	$\frac{1-1.5}{0.75-1.5}$
Orange, Osage Peppertree, Brazilian (Florida	1.5 - 3.75	0.75 - 1.5
holly)*	1.5 - 3.75	1.5
Persimmon*	1.5 = 3.75	0.75 – 1.5
Pine	1.5 – 3.75	0.75 – 1.5
Poplar, yellow*	1.5 - 3.75	0.75 = 1.5
Prunus	1.5 - 3.75	1-1.5
Raspberry	2.3 - 3	0.75 - 1.2
Redbud, eastern	1.5 - 3.75	0.75 - 1.5
Redcedar, eastern	1.5 - 3.75	0.75 - 1.5
Rose, multiflora	1.5	0.75
Debe aplicarse antes de que las hoj de hojas.	as se deterioren por	los insectos que se alimentan
Russian olive*	1.5 - 3.75	0.75 - 1.5
Sage, black	1.5 – 3	0.75
Sage, white*	1.5 - 3	0.75 - 1.5
Sagebrush, California	1.5 - 3	0.75
Salmonberry	1.5	0.75
Saltbush	-	1 -
Saltcedar	3-3.75	1-2
Para control parcial, aplique una solu de mano o de 3 a 3.75 cuartos de gal una solución de 1 a 2 por ciento de es	ción de 1 a 2 por cier ón por acre como roci te producto mezclado	o al voleo. Para control, aplique con 0.25 por ciento de Arsenal
con equipo de mano. Para control us galón de este producto en una mezo de con menos de 6 pies de altura. P	cla de tanque con 1	pinta de Arsenal a las plantas
de con menos de 6 pies de altura. P	ara control del salto	edar mayor de 6 pies de altura
de tanque con 2 pintas de Arsenal.	3 cuartos de galón d	e este producto en una mezcia
Sassafras*	1.5 - 3.75	0.75 – 1.5
Sea Myrtle	10 070	1 15
Sourwood*	1.5 - 3.75	0.75 – 1.5
Sumac; laurel, poison, smooth, sugarbush, winged*	1.5 - 3	0.75 - 1.5
Sweetgum	1.5 - 2.3	0.75 - 1.5
Swordfern*	1.5 - 3.75	0.75 - 1.5
Tallowtree, Chinese	_	0.75
Tanoak resprouts*		1.5
Thimbleberry	1.5	0.75
Tobacco, tree*	1.5 - 3	0.75 - 1.5
Toyon*	15 00	1.5
Trumpetcreeper	1.5 - 2.3	0.75 – 1.2
Vine maple* Virginia creeper	1.5 – 3.75	0.75 - 1.5 0.75 - 1.5
Waxmyrtle, southern*	$\frac{1.5 - 3.75}{1.5 - 3.75}$	1.5
Willow	2.3	0.75
Verba Santa California*		1.5

1.5

Yerba Santa, California*

* Control parcial

^{*}Control parcial

Otros matorrales leñosos y árboles indicados en esta etiqueta — Para control parcial, aplique de 1.5 a 3.75 cuartos de galón de este producto por acre como rocío al voleo o como solución de 0.75 a 1.5 por ciento con equipo de mano.

13.0 LÍMITES EN LA GARANTÍA Y EN LA RESPONSABILIDAD

Monsanto Company garantiza que este producto concuerda con la descripción química de la etiqueta y es razonablemente adecuado para los propósitos descritos en el folleto titulado Instrucciones de Uso Completas ("Instrucciones") cuando se usa de acuerdo con dichas Instrucciones y las condiciones que allí se detallan. NO SE HACE NINGUNA OTRA GARANTÍA EXPRESA O IMPLÍCITA ACERCA DE LA IDONEIDAD PARA UN USO PARTICULAR O COMERCIABILIDAD. Esta garantía está sujeta también a las condiciones y limitaciones que aquí se indican.

El comprador y todos los usuarios deberán reportar con prontitud a esta compañía acerca de cualquier reclamo que se base en un contrato, negligencia, estricta responsabilidad, u otros actos ilícitos

Hasta el grado máximo permitido por la ley, el comprador y todos los usuarios son responsables por todas las pérdidas o daños que resultasen por el uso o manejo en condiciones que estén más allá del control de esta Compañía, incluyendo pero no limitándose a: incompatibilidad con productos que no sean los señalados en las Instrucciones, aplicación o contacto con vegetación que no se quiera destruir, condiciones climáticas inusuales, condiciones climáticas que estén fuera de los límites que se consideran normales en el lugar de la aplicación y para el período de tiempo en el cual se aplica, así como condiciones climáticas que estén fuera de los límites indicados en las Instrucciones, aplicaciones que no estén explicitamente aconsejadas en las Instrucciones, condiciones de humedad que estén fuera de los límites establecidos en las Instrucciones, o la presencia de productos en la tierra o sobre ella, en las plantas o en la vegetación que se está tratando, diferentes a los indicados en las Instrucciones.

Esta Compañía no garantiza ninguno de los productos reformulados o reempacados de este producto, excepto de acuerdo a los requisitos de la administración de esta Compañía y con el permiso escrito expreso de esta Compañía.

LA ÚNICA Y EXCLUSIVA COMPENSACIÓN AL USUARIO O COMPRADOR Y EL LÍMITE DE RESPONSABILIDAD DE ESTA COMPAÑÍA O DE CUALQUIER OTRO VENDEDOR POR CUALQUIER PÉRDIDA O POR TODAS LAS PÉRDIDAS, PERUICIOS O DAÑOS QUE RESULTASEN DEL USO O MANEJO DE ESTE PRODUCTO (INCLUYENDO RECLAMOS QUE SE BASEN EN UN CONTRATO, NEGLIGENCIA, ESTRICTA RESPONSABILIDAD Y OTROS ACTOS ILÍCITOS) SERÁ EL PRECIO PAGADO POR EL USUARIO O EL COMPRADOR POR LA CANTIDAD INVOLUCRADA DE ESTE PRODUCTO, O A ELECCIÓN DE ESTA COMPAÑÍA O DE OTRO VENDEDOR, EL REEMPLAZO DE DICHA CANTIDAD, O SI NO SE OBTUVO MEDIANTE COMPRA, EL REEMPLAZO DE DICHA CANTIDAD DEL PRODUCTO. HASTA EL GRADO MÁXIMO PERMITIDO POR LA LEY, EN NINGUN CASO ESTA COMPAÑÍA U OTRO VENDEDOR SERÁN RESPONSABLES POR DAÑOS INCIDENTALES, CONSECUENTES O ESPECIALES.

En el momento de abrir y usar el producto, se asume que el comprador y todos los usuarios han aceptado las condiciones de los LÍMITES EN LA GARANTIA Y EN LA RESPONSABILIDAD que no pueden variar por medio de ningún acuerdo verbal o escrito. Si las condiciones son inaceptables, devuelva el producto inmediatamente sin abrir el envase.

Roundup Custom, Certainty, Outrider, Monsanto y el símbolo de la enredadera son marcas comerciales de Monsanto Technology LLC. Todas las demás son propiedad de sus respectivos dueños-

No se han otorgado licencias de uso bajo ninguna patente que no sea de los Estados Unidos de América.

Reg. EPA nro. 524-343

En caso de una emergencia originada por este producto o para solicitar asistencia médica, llame con cobro revertido las 24 horas al (314) 694-4000.



Envasado por: MONSANTO COMPANY 800 N. LINDBERGH BLVD. ST. LOUIS, MISSOURI 63167, EE.UU. ©2013 032712

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MONSANTO COMPANY

Safety Data Sheet Commercial Product

1. PRODUCT AND COMPANY IDENTIFICATION

1.1. Product identifier

Roundup Custom[TM] for Aquatic & Terrestrial Use

1.1.1. Chemical name

Not applicable.

1.1.2. Synonyms

None.

1.1.3. EPA Reg. No.

524-343

1.2. Product use

Herbicide

1.3. Company

MONSANTO COMPANY, 800 N. Lindbergh Blvd., St. Louis, MO, 63167

Telephone: 800-332-3111, **Fax:** 314-694-5557

E-mail: safety.datasheet@monsanto.com

1.4. Emergency numbers

FOR CHEMICAL EMERGENCY, SPILL LEAK, FIRE, EXPOSURE, OR ACCIDENT Call CHEMTREC - Day or Night: 1-800-424-9300 toll free in the continental U.S., Puerto Rico, Canada, or Virgin Islands. For calls originating elsewhere: 703-527-3887 (collect calls accepted). FOR MEDICAL EMERGENCY - Day or Night: +1 (314) 694-4000 (collect calls accepted).

2. HAZARDS IDENTIFICATION

2.1. Classification

OSHA Hazard Communication Standard, 29 CFR 1910.1200 (2012) Not classified as hazardous.

2.2. Appearance and odour (colour/form/odour)

Colourless-Amber /Liquid, (viscous) / Odourless

2.3. OSHA Status

This product is not hazardous according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Refer to section 11 for toxicological and section 12 for environmental information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Active ingredient

Isopropylamine salt of N-(phosphonomethyl)glycine; {Isopropylamine salt of glyphosate}

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Composition

COMPONENT	CAS No.	% by weight (approximate)
Isopropylamine salt of glyphosate	38641-94-0	53.8
Water	7732-18-5	46.2

4. FIRST AID MEASURES

Use personal protection recommended in section 8.

4.1. Description of first aid measures

- **4.1.1.** Eye contact: If in eyes, hold eye open and rinse slowly and gently for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.
- **4.1.2.** Skin contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. Wash clothes and clean shoes before re-use.
- **4.1.3. Inhalation:** If inhaled, move person to fresh air. If person is not breathing, call emergency number or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.
- **4.1.4. Ingestion:** Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison center or doctor. Do not give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

- **4.2.1.** Eye contact, short term: Not expected to produce significant adverse effects when recommended use instructions are followed.
- **4.2.2. Skin contact, short term:** Not expected to produce significant adverse effects when recommended use instructions are followed.
- **4.2.3.** Inhalation, short term: Not expected to produce significant adverse effects when recommended use instructions are followed.
- **4.2.4. Single ingestion:** Not expected to produce significant adverse effects when recommended use instructions are followed.

4.3. Indication of any immediate medical attention and special treatment needed

- **4.3.1.** Advice to doctors: This product is not an inhibitor of cholinesterase.
- **4.3.2. Antidote:** Treatment with atropine and oximes is not indicated.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

5.1.1. Recommended: Water, foam, dry chemical, carbon dioxide (CO2)

5.2. Special hazards

5.2.1. Unusual fire and explosion hazards

None

Minimise use of water to prevent environmental contamination.

Environmental precautions: see section 6.

5.2.2. Hazardous products of combustion

Carbon monoxide (CO), phosphorus oxides (PxOy), nitrogen oxides (NOx)

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5.3. Fire fighting equipment: Self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

5.4. Flash point

Does not flash.

6. ACCIDENTAL RELEASE MEASURES

6.1. Environmental precautions

SMALL QUANTITIES:

Low environmental hazard.

LARGE QUANTITIES:

Minimise spread.

Keep out of drains, sewers, ditches and water ways.

6.2. Methods for cleaning up

SMALL QUANTITIES:

Absorb only in non-combustible material.

Sweep, scoop or vacuum to remove.

LARGE QUANTITIES:

Absorb in earth, sand or absorbent material.

Dig up heavily contaminated soil.

Collect in containers for disposal.

Flush residues with small quantities of water.

Minimise use of water to prevent environmental contamination.

Refer to section 7 for types of containers.

Refer to section 13 for disposal of spilled material.

Use handling recommendations in Section 7 and personal protection recommendations in Section 8.

7. HANDLING AND STORAGE

Good industrial practice in housekeeping and personal hygiene should be followed.

7.1. Precautions for safe handling

Avoid contact with eyes, skin and clothing. When using do not eat, drink or smoke. Wash hands thoroughly after handling or contact. Wash contaminated clothing before re-use. Thoroughly clean equipment after use. Do not contaminate drains, sewers and water ways when disposing of equipment rinse water. Refer to section 13 of the safety data sheet for disposal of rinse water.

7.2. Conditions for safe storage

Minimum storage temperature: -15 °C Maximum storage temperature: 50 °C

Compatible materials for storage: stainless steel, fibreglass, plastic

Incompatible materials for storage: galvanised steel, unlined mild steel, see section 10.

Keep out of reach of children.

Keep away from food, drink and animal feed.

Keep only in the original container.

Keep container tightly closed in a cool, well-ventilated place.

Partial crystallization may occur on prolonged storage below the minimum storage temperature.

If frozen, place in warm room and shake frequently to put back into solution.

Minimum shelf life: 5 years.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Airborne exposure limits

Components	Exposure Guidelines
Isopropylamine salt of glyphosate	No specific occupational exposure limit has been established.
Water	No specific occupational exposure limit has been established.

8.2. Engineering controls: No special requirement when used as recommended.

8.3. Recommendations for personal protective equipment

- **8.3.1.** Eye protection: No special requirement when used as recommended.
- **8.3.2. Skin protection:** No special requirement when used as recommended.
- **8.3.3. Respiratory protection:** No special requirement when used as recommended.

When recommended, consult manufacturer of personal protective equipment for the appropriate type of equipment for a given application.

9. PHYSICAL AND CHEMICAL PROPERTIES

These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

Colour/colour range:	Colourless - Amber
Odour:	Odourless
Form:	Liquid, (viscous)
Physical form changes (melting, bo	lling, etc.):
Melting point:	Not applicable.
Boiling point:	No data.
Flash point:	Does not flash.
Explosive properties:	No data.
Auto ignition temperature:	No data.
Self-accelerating decomposition	No data.
temperature (SADT):	
Oxidizing properties:	No data.
Specific gravity:	1.206 @ 20 °C / 15.6 °C
Vapour pressure:	No significant volatility; aqueous solution.
Vapour density:	No data.
Evaporation rate:	No data.
Dynamic viscosity:	No data.
Kinematic viscosity:	No data.
Density:	1.206 g/cm3 @ 20 °C
Solubility:	Water: Completely miscible.
pH:	4.6 - 4.8 @ 63 g/l
Partition coefficient:	log Pow: < 0.000 (active ingredient)

10. STABILITY AND REACTIVITY

Roundup Custom[TM] for Aquatic & Terrestrial Use

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Reacts with galvanised steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode.

10.2. Stability

Stable under normal conditions of handling and storage.

10.3. Possibility of hazardous reactions

Reacts with galvanised steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode.

10.4. Incompatible materials

galvanised steel;unlined mild steel;see section 10.;

Compatible materials for storage: see section 7.2.

10.5. Hazardous decomposition

Thermal decomposition: Hazardous products of combustion: see section 5.

11. TOXICOLOGICAL INFORMATION

This section is intended for use by toxicologists and other health professionals.

Likely routes of exposure: Skin contact, eye contact, inhalation

Potential health effects

Eye contact, short term: Not expected to produce significant adverse effects when recommended use instructions are followed.

Skin contact, short term: Not expected to produce significant adverse effects when recommended use instructions are followed.

Inhalation, short term: Not expected to produce significant adverse effects when recommended use instructions are followed.

Single ingestion: Not expected to produce significant adverse effects when recommended use instructions are followed.

Data obtained on product, similar products and on components are summarized below.

Isopropylamine salt of glyphosate (62%)

Data obtained on product and components are summarized below.

Acute oral toxicity

Rat, LD50 (limit test): > 5,000 mg/kg body weight

Practically non-toxic. No mortality.

Mouse, LD50 (limit test): > 5,000 mg/kg body weight

Practically non-toxic. No mortality.

Acute dermal toxicity

Rabbit, LD50 (limit test): > 5,000 mg/kg body weight

Practically non-toxic. No mortality.

Skin irritation

Rabbit, 6 animals, Draize test:

Days to heal: 3

Primary Irritation Index (PII): 0.0/8.0

Essentially non irritating.

Eye irritation

Rabbit, 6 animals, OECD 405 test:

Days to heal: 0

Essentially non irritating.

Roundup Custom[TM] for Aquatic & Terrestrial Use Version: 2.0 Effective date: 10/15/2015

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Acute inhalation toxicity

Rat, LC50, 4 hours, aerosol: > 4.24 mg/L

Practically non-toxic. No mortality. Maximum attainable concentration.

Skin sensitization

Guinea pig, 3-induction Buehler test:

Positive incidence: 0 %

Negative.

N-(phosphonomethyl)glycine: { glyphosate acid}

Genotoxicity

Not genotoxic.

Carcinogenicity

Not carcinogenic in rats or mice. Listed as Category 2A by the International Agency for Research on Cancer (IARC) but our expert opinion is that classification as a carcinogen is not warranted.

Reproductive/Developmental Toxicity

Developmental effects in rats and rabbits only in the presence of significant maternal toxicity.

Reproductive effects in rats only in the presence of significant maternal toxicity.

12. ECOLOGICAL INFORMATION

This section is intended for use by ecotoxicologists and other environmental specialists.

Data obtained on components are summarized below.

Isopropylamine salt of glyphosate (62%)

Data obtained on product and components are summarized below.

Aquatic toxicity, fish

Bluegill sunfish (Lepomis macrochirus):

Acute toxicity, 96 hours, static, LC50: > 1,000 mg/L

Practically non-toxic.

Rainbow trout (Oncorhynchus mykiss):

Acute toxicity, 96 hours, static, LC50: > 1,000 mg/L

Practically non-toxic.

Aquatic toxicity, invertebrates

Water flea (Daphnia magna):

Acute toxicity, 48 hours, static, EC50: 930 mg/L

Practically non-toxic.

Aquatic toxicity, algae/aquatic plants

Green algae (Scenedesmus subspicatus):

Acute toxicity, 72 hours, static, EbC50 (biomass): 72.9 mg/L

Slightly toxic.

Green algae (Scenedesmus subspicatus):

Acute toxicity, 72 hours, static, NOEC (growth rate): 26.4 mg/L

Soil organism toxicity, invertebrates

Earthworm (Eisenia foetida):

Acute toxicity, 14 days, LC50: > 5,000 mg/kg dry soil

Practically non-toxic.

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N-(phosphonomethyl)glycine; { glyphosate acid}

Avian toxicity

Bobwhite quail (Colinus virginianus):

Acute oral toxicity, single dose, LD50: > 3,851 mg/kg body weight

Practically non-toxic.

Arthropod toxicity

Honey bee (Apis mellifera):

Oral, 48 hours, LD50: 100 µg/bee

Honey bee (Apis mellifera):

Contact, 48 hours, LD50: > 100 µg/bee

Practically non-toxic.

Bioaccumulation

Bluegill sunfish (Lepomis macrochirus):

Whole fish: BCF: < 1

No significant bioaccumulation is expected.

Dissipation

Soil, field:

Half life: 2 - 174 days Koc: 884 - 60,000 L/kg Adsorbs strongly to soil.

Water, aerobic:

Half life: < 7 days

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

13.1.1. Product

Not classified as hazardous waste by the Resource, Conservation and Recovery Act (RCRA), 40 CFR 261. Keep out of drains, sewers, ditches and water ways. Recycle if appropriate facilities/equipment available. Burn in proper incinerator. Follow all local/regional/national/international regulations.

13.1.2. Container

Dispose of as non hazardous industrial waste. See the individual container label for disposal information. Emptied containers retain vapour and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed. Empty packaging completely. Triple or pressure rinse empty containers. Pour rinse water into spray tank. Do NOT contaminate water when disposing of rinse waters. Do NOT re-use containers. Store for collection by approved waste disposal service. Follow all local/regional/national/international regulations.

Use handling recommendations in Section 7 and personal protection recommendations in Section 8.

14. TRANSPORT INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

14.1. US Dept. of Transportation (DOT) Hazardous Materials Regulations (49 CFR Parts 105-180)

Proper Shipping Name	Not regulated for domestic ground transportation. ()
(Technical Name if	
required):	

14.2. IMDG Code

IMDO COUC	
Proper Shipping Name	Not regulated for transport under IMO Regulations ()

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14.3. IATA/ICAO

	Not regulated for transport under IATA/ICAO Regulations ()
(Technical Name if required):	

15. REGULATORY INFORMATION

15.1. Environmental Protection Agency

15.1.1. TSCA Inventory

All components are on the US EPA's TSCA Inventory

15.1.2. SARA Title III Rules

Section 311/312 Hazard Categories: Not applicable.

Section 302 Extremely Hazardous Substances: Not applicable.

Section 313 Toxic Chemical(s): Not applicable.

15.1.3. CERCLA Reportable quantity

Not applicable.

15.1.4. Federal Insecticide, Fungicide, Rodenticide Act (FIFRA)

This chemical is a pesticide product regulated by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

CAUTION!

Acute oral toxicity: FIFRA category IV. Acute oral toxicity: FIFRA category IV. Acute dermal toxicity: FIFRA category IV. Acute inhalation toxicity: FIFRA category IV.

Skin irritation: FIFRA category IV. Eye irritation: FIFRA category IV.

16. OTHER INFORMATION

The information given here is not necessarily exhaustive but is representative of relevant, reliable data.

Follow all local/regional/national/international regulations.

Please consult supplier if further information is needed.

For more information refer to product label.

Please consult Monsanto if further information is needed.

In this document the British spelling was applied.

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| Significant changes versus previous edition.

Version: 2.0

Health Flammability Instability Additional Markings 0 0 = Minimal hazard, 1 = Slight hazard, 2 = Moderate hazard, 3 = Severe hazard, 4 = Extreme hazard

Full denomination of most frequently used acronyms. BCF (Bioconcentration Factor), BOD (Biochemical Oxygen Demand), COD (Chemical Oxygen Demand), EC50 (50% effect concentration), ED50 (50% effect dose), I.M. (intramuscular), I.P. (intraperitoneal), I.V. (intravenous), Koc (Soil adsorption coefficient), LC50 (50% lethality concentration), LD50 (50% lethality dose), LDLo (Lower limit of lethal dosage), LEL (Lower Explosion Limit), LOAEC (Lowest Observed Adverse Effect Concentration), LOAEL (Lowest Observed Adverse Effect Level), LOEC (Lowest Observed Effect Concentration), LOEL (Lowest Observed Effect Level), MEL (Maximum Exposure limit), MTD (Maximum Tolerated Dose), NOAEC (No Observed Adverse Effect Concentration), NOAEL (No Observed Adverse Effect Level), NOEC (No Observed Effect Concentration), NOEL (No Observed Effect Level), OEL (Occupational Exposure Limit), PEL (Permissible Exposure Limit), PII (Primary Irritation Index), Pow (Partition coefficient n-octanol/water), S.C. (subcutaneous), STEL (Short-Term Exposure Limit), STOT SE (Specific Target Organ Toxicity, Single Exposure), STOT RE (Specific Target Organ Toxicity, Repeated Exposure), TLV-C (Threshold Limit Value-Ceiling), TLV-TWA (Threshold Limit Value - Time Weighted Average), UEL (Upper Explosion Limit)

This Material Safety Data Sheet (MSDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABELING (attached to and accompanying the product container). This MSDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, MONSANTO Company or any of its subsidiaries makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for the purposes prior to use. In no event will MONSANTO Company or any of its subsidiaries be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR TO THE PRODUCT TO WHICH INFORMATION REFERS.

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NFPA

End of document

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Effective date: 10/15/2015



NON-IONIC SURFACTANT • SPREADER • ACTIVATOR • ANTIFOAMING AGENT

Principal Functioning Agents: 1,2-Propanediol, propane-1,2,3-triol, alcohol ethoxylate, dimethylpolysiloxane

Constituents Ineffective as Spray Adjuvants

KEEP OUT OF REACH OF CHILDREN



Hazard Statements: Causes serious eye irritation. Presautionary Statements: Wash hands thoroughly after handling.

Personal Protective Equipment: Wear protective gloves/protective clothing/eve protection/face protection.

FIRST AID: If in Eyes: Hold eye open and rinse slowly and gently with water for \$5-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eve. Call a poison control center or doctor for treatment advice. If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. If swallowed: Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. If inhaled: Move person to fresh air. If person is not peathing, call 311 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible Call a polson control center or doctor for treatment advice.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

NET CONTENTS ☐ 30 GL (113.6 L) 275 GL (1040:9°L)



GENERAL: SPREADER 90 is a low foaming, non-ionic type spreader, adjuvant. SPREADER 90 provides quick wetting, more uniform distribution, and increases retention of spray by reducing surface tension. SPREADER 90 is formulated alcohol free and non-flammable. SPREADER 90 is readily dispersible in water and compatible with fertilizer and pesticide mixtures. This product can be used in terrestrial or aquatic settings. Some pesticides have stated adjuvant use rates. In all cases, the pesticide manufacturer's label should be consulted regarding specific adjuvant use recommendations and that rate followed. Do not add adjuvant at a level that would exceed 5% of the finished spray volume.

DIRECTIONS FOR USE: Fill spray tank 1/2 full with water and begin agriculture. Add pesticides as directed by label, while maintaining agitation, After pesticides are thoroughly mixed, add selected rate of SPREADER 90 as suggested by the label of pesticide being used.

Insecticides, Fungicides, Acaracides	Fluid oz. / 100 gal.
Herbicides, Defoliants, Desiccants	8 to 64
Fondi Nutrients	# 10 to 20
Industrial spraying rights-of-way, non crop areas	16 to 32

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not contaminate water. Do not allow to enter drains, sewers, or watercourses.

STORAGE AND DISPOSAL

STORAGE: Heated storage not required. Store in cool, dry place. Store in original container. Keep tightly closed. Do not reuse empty container.

DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Dispose of contents/container on-site or at an approved waste disposal facility. Triple rinse (or equivalent) adding rinse water to spray tank. Offer container for recycling or dispose of container in sanitary landfill, or by other procedures approved by appropriate authorities. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at www.acrecycle.org.

For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC 1-800-424-9300.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

BEFORE BUYING OR USING THIS PRODUCT, read the Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buver or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary. LOVELAND PRODUCTS, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, when the product is used in accordance with such Directions for Use under normal conditions of use. LOVELAND PRODUCTS, INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE BUYER'S OR USER'S EXCLUSIVE REMEDY FOR ANY INJURY, LOSS, OR DAMAGE RESULTING FROM THE HANDLING OR USE OF THIS PRODUCT SHALL BE LIMITED TO ONE OF THE FOLLOWING, AT THE ELECTION OF LOVELAND PRODUCTS, INC. OR THE SELLER: DIRECT DAMAGES NOT EXCEEDING THE PURCHASE PRICE OF THE PRODUCT OR REPLACEMENT OF THE PRODUCT. LOVELAND PRODUCTS, INC. AND THE SELLER SHALL NOT BE LIABLE TO THE BUYER OR USER OF THIS PRODUCT FOR ANY CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES, OR DAMAGES IN THE NATURE OF A PENALTY.

SDS NUMBER: 1000014975-16-LPI SDS REVISIONS: SEC. 1, 2, 12 **DATE OF ISSUE: 09/12/16**

SPREADER 90 SUPERSEDES: 05/05/15

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 PRODUCT IDENTIFIER:

TRADE NAME:

SPREADER 90

1.2 RECOMMENDED USE: NON-IONIC SURFACTANT - SPREADER - ACTIVATOR - ANTIFOAMING AGENT

1.3 SUPPLIER DETAILS:

LOVELAND PRODUCTS, INC.

P.O. Box 1286 • Greeley, CO 80632-1286

1.4 24 Hour Emergency Phone: 1-800-424-9300 - Medical Emergencies: 1-866-944-8565 - Product Information: 1-888-574-2878 (LPI-CUST) U.S. Coast Guard National Response Center: 1-800-424-8802

HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to 29 CFR 1910.1200

Eye Damage/Irritation

Category 2A

H319

2.2 Label elements



Signal word:

WARNING

Hazard Statements:

H319 - Causes serious eye irritation

Precautionary

Statement:

P264 - Wash hands thoroughly after handling.

(Prevention):

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary

Statement:

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

(Response):

continue rinsing eyes.

P337+P313 - If eye irritation persists: Get medical advice/attention.

Precautionary

Statement:

(Storage):

Not applicable or required.

Precautionary Statement:

(Disposal):

Not applicable or required.

2.3 Other hazards

None known



SDS NUMBER: 1000014975-16-LPI SDS REVISIONS: SEC. 1, 2, 12 **DATE OF ISSUE: 09/12/16**

SPREADER 90 SUPERSEDES: 05/05/15

COMPOSITION, INFORMATION ON INGREDIENTS

3.1 Substances

3.2 Mixtures

Classification according to 29 CFR 1910.1200

Chemical Name: CAS No. Concentration [%]

Alcohol ethoxylate, 34398-01-1 Dimethylpolysiloxane, 67762-90-7 1,2-Propanediol 57-55-6 Propane-1,2,3-triol 56-81-5

90.00 Other ingredients n/a 10.00

FIRST AID MEASURES

4.1 Description of First Aid Measures

Get medical attention if symptoms occur. General Advice:

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 Eye contact:

minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or

doctor for treatment advice.

Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to Ingestion:

swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth

to an unconscious person.

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable by

mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

4.2 Most important Symptoms and Effects, Acute and Delayed

Symptoms: May be harmful if swallowed.

4.3 Immediate Medical Attention and Special Treatment

Treatment: Treat symptomatically. Symptoms may be delayed.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565 Take container, label or product name with you when seeking medical attention.

NOTES TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

Suitable Extinguishing Media: Dry chemical, carbon dioxide (CO₂), alcohol foam, foam, water spray or fog. Do not use water jet as

this will spread the fire.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Specific Hazards During Firefighting: During a fire, hazardous by-products can be released.

5.3 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Special Protective Equipment for Firefighters: Self-contained breathing apparatus and full protective gear should be worn in fighting large fires

involving chemicals. Use water spray to keep fire exposed containers cool. Keep people away. Isolate

fire and deny unnecessary entry.

DATE OF ISSUE: 09/12/16

SPREADER 90 SUPERSEDES: 05/05/15

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Personal Precautions:

Avoid inhalation of vapors and spray mist and contact with skin and eyes. Ensure adequate ventilation.

Wear suitable protective clothing.

6.2 ENVIRONMENTAL PRECAUTIONS

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Do not allow to enter

drains, sewers, or watercourses.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP

Methods for Clean-Up:

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. After removal flush

contaminated area thoroughly with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to

Remove residual contamination.

Never return spills to original containers for re-use.

7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:

Advice on Safe Handling:

Avoid inhalation of mists, vapors / spray and contact with eyes, skin and clothing. Do not breathe mists or vapor. Wear personal protective equipment. Do not use in areas without adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling. Do not empty into drains. Handle and open container with care. Use care in handling/storage. Wash before eating, drinking and/or smoking.

7.2 CONDITIONS FOR SAFE STORAGE:

Requirements for Storage Areas and Containers:

Store in cool, dry place. Store in original container. Keep tightly closed. Do not reuse empty container. Product will become thicker at cold temperatures but effectiveness will not be affected. Warm product before use. Do not contaminate water, food or feed by storage or disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS:

OCCUPATIONAL EXPOSURE LIMITS

U.S. Workplace Exposure Level (ACGIH) Guides

Components Type

No listings TWA

Biological limit values

ACGIH Biological Exposure Indices

Components Value Specimen

No listings

8.2 EXPOSURE CONTROLS:

Engineering Measures

Provide adequate general and local exhaust ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors and spray mists. Provide eyewash station and safety shower.

Individual Protection Measures:

Eye / Face Protection:

Goggles or shielded safety glasses are recommended.

Skin Protection:

Coveralls worn over long-sleeved shirt and long pants. Chemical-resistant gloves. Chemical-resistant footwear plus

Value

socks

Respiratory Protection:

In case of inadequate ventilation or risk of inhalation of mists or vapors, use suitable respiratory equipment such as MSHA/NIOSH TC-21C or NIOSH approved respirator with N, R, P or HE filter. Wear respiratory protection during operations where spraying or misting occurs. If respirators are used, a program should be in place to assure compliance with 29 CFR 1910.134, the OSHA Respiratory Protection standard. Wear air supplied respiratory protection if exposure concentrations are unknown.

SDS NUMBER: 1000014975-16-LPI SDS REVISIONS: SEC. 1. 2. 12 **DATE OF ISSUE: 09/12/16**

SPREADER 90 SUPERSEDES: 05/05/15

PHYSICAL AND CHEMICAL PROPERTIES

9.1 APPEARANCE:

Liquid

ODOR:

Mild.

ODOR THRESHOLD:

No data available. Clear, colorless.

COLOR: pH:

7.5 (1% solution)

MELTING POINT / FREEZING POINT: No data available

BOILING POINT:

No data available.

FLASH POINT:

>212 °F (100 °C) / TCC

FLAMMABILILITY (solid, gas): No data available.

VAPOR PRESSURE:

UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: No data available.

No data available.

SOLUBILITY:

Soluble PERCENT VOLATILE (by volume): No data available.

PARTITION CO-EFFICIENT, n-OCTANOL / WATER: No data available.

AUTO-IGNITION TEMPERATURE: No data available. DECOMPOSITION TEMPERATURE: No data available

VISCOSITY, dynamic:

SPECIFIC GRAVITY (Water = 1): 1.025 g/ml

No data available

DENSITY:

8.55 lbs./gal / 1.02 kg/L

Note:

These physical data are typical values based on material tested but may vary from sample to sample.

Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

10.1 REACTIVITY

Stable

10.2 CHEMICAL STABILITY

Stable under normal temperature conditions

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No reactions known under normal use conditions. Will not polymerize.

10.4 CONDITIONS TO AVOID

None known.

10.5 INCOMPATIBILE MATERIALS

Strong oxidizers, strong acids and bases at high temperatures.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide from burning.

11. TOXICOLOGICAL INFORMATION

11.1 LIKELY ROUTES OF EXPOSURE

Eye contact. Inhalation. Skin contact.

LC₅₀ (rat): No data available.

LD₅₀ Oral (male rat): > 5,000 mg/kg (based on a similar product) LD₅₀ Dermal (rabbit): >2,000 mg/kg (based on a similar product)

Acute Toxicity Estimates: No data available Skin Irritation (rabbit): Not an irritant. Eye Irritation (rabbit): Severe irritant

Specific Target Organ Toxicity: Single exposure: No data available.

Aspiration: No data available

Skin Sensitization (guinea pig): Not a sensitizer

Carcinogenicity: No data available Germ Cell Mutagenicity: No data available

Interactive Effects: None known

SAFETY DATA SHEET SDS NUMBER: 1000014975-16-LPI

SDS REVISIONS: SEC. 1, 2, 12

SPREADER 90 DATE OF ISSUE: 09/12/16

SUPERSEDES: 05/05/15

12. ECOLOGICAL INFORMATION

12.1 ECOTOXICITY

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Ecotoxicological Data

	Species	Test Results	
Product			
96-hour LC ₅₀	Oncorhynchus mykiss	18 mg/L	
48-hour EC ₅₀	Daphnia Magna	9.4 mg/L	

Drift or runoff may adversely affect non-target plants.

Do not apply directly to water.

Do not contaminate water when disposing of equipment wash water.

Do not apply when weather conditions favor drift from target area.

12.2 PERSISTENCE AND DEGRADABILITY

Biodegradability: No data available

12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulation: No data available.

12.4 MOBILITY IN SOIL

No data available.

12.5 OTHER ADVERSE EFFECTS

Assessment: No data available.

13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Wastes may be disposed of on site or at an approved waste disposal facility. Triple rinse (or equivalent), adding rinse water to spray tank. Offer container for recycling or dispose of in a sanitary landfill or by other procedures approved by appropriate authorities. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at http://www.acrecycle.org/. Do not contaminate water, food or feed by storage or disposal.

14. TRANSPORT INFORMATION

14.1 LAND TRANSPORT

DOT Shipping Description: NOT REGULATED.

U.S. Surface Freight Classification: ADHESIVES, ADJUVANTS, SPREADERS OR STICKERS (NMFC 4610; CLASS 60)

15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS

NFPA HMIS NFPA & HMIS Hazard Ratings:

> Health Least Health Flammability Flammability Slight 0 1 Reactivity Instability 2 Moderate 0 0 High B PPE

Severe

SDS NUMBER: 1000014975-16-LPI SDS REVISIONS: SEC. 1, 2, 12

DATE OF ISSUE: 09/12/16

>

SPREADER 90 SUPERSEDES: 05/05/15

SARA Hazard Notification/Reporting						
SARA Title III Hazard Category:	Immediate	Y	Fire	N	Sudden Release of Pressure	N_
	Delayed	N	Reactive			

Reportable Quantity (RQ) under U.S. CERCLA: Not listed SARA, Title III, Section 313: Not listed RCRA Waste Code: Not listed CA Proposition 65: Not applicable

16. OTHER INFORMATION

SDS STATUS: Sections 1, 2 and 12 revised.

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental Health and Safety

CA REG. NO.: 34704-50055 WA REG. NO.: 34704-05002

Disclaimer and Limitation of Liability: This data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and LOVELAND PRODUCTS, INC. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.



CAUTION: Harmful if inhaled or absorbed through skin. Causes moderate eye initation. Avoid contact with skin, eyes or clething. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or smoking tobacco. Remove and wash contaminated clathing before reuse. PERSONAL PROTECTIVE EQUIPMENT: Wear chemical-resistant gloves, long-sleeved shin, and long pants, shoes plus socks when mixing or applying TURF TRAX® BLUE.

First Aid: If in Eyes: Hold eye open and more money and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue insign, e.g., Call a poison control center for LD-20 minutes. Remove continue insign, e.g., Call a poison control center or doctor for treatment advice. If on Skin or Citching: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. If Swallowed: Call a poison control center or doctor for treatment advice. Have the person sip a glass of treatment across. In sweatowest call a poson control center or doctor immediately for treatment advice, have the person sip a glass of water if able to swallow. Do not indice your ording unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. If Inhalad show person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT, CALL 1-866-944-8565.

allons spray solution		
DORMANT	LIGHT	DARK
6 to 8 oz	6 to 10 oz	103-14
	10 to 10 or	444.04
12 to 18 oz	18 to 24 oz	24 40 24 02
2 to 3 oz	6 to 10 oz	18 to 24 oz
	6 to 8 oz	DORMANT LIGHT 6 to 8 oz 6 to 10 oz 6 to 10 oz 10 to 18 oz 12 to 18 oz 18 to 24 oz

Use higher rates of TURF TRAX BLUE when spraying longer and thinner strands of turf which are more difficult to mark due to the non-uniform surface.

TERMITICIDE PRE-TREATMENT APPLICATIONS

TURE TRAX BLUE will assist pest control technicians in applying structural pesticides by marking treated areas blue. TURF TRAX BLUE will indicate treatment on soil, wood, fibrous material and other areas. The colorant will help to eliminate damaging or wasteful overlap and reduce problem skips in application. TURF TRAX BLUE washes off most surfaces with soap and water. This product may stain certain surfaces in pre-treatment applications.

Rates for use as termiticide pre-treatment: ounces/100 gallons spray solution

- 1	Cord pre-treatment	
	food pre-treatment	4 00
	en_alebi@all	1 VL
	re-slab/Soll	4
	10 I 4	+ 02
	STORAGE AND DISPOSAL	

STORAGE: Store in cool, dry place. Store in original container. Keep container tightly closed. Do not reuse empty container.

DISPOSAL: Do not contaminate water, food, or feed by storage or disposal. Wastes may be disposed of on-site or at an approved waste disposal facility. Triple rinse (or equivalent) adding rinse water to spray tank. Offer container for recycling or dispose of container in sanitary landfill, or by other procedures approved by appropriate authorities, Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at www.acrecycle.org.

For help with any split, leak, fire or exposure involving this material, call day or night CHEMTREC 1-800-424-9300.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

BEFORE BUYING OR USING THIS PRODUCT, read the Directions for Use and the following Conditions of Sale and Umitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND or using this product, the buyer or user acceptor the rollowing conditions of sale and Limitation of Warranty and Liability, Whitin no employee or again or LiveLarus PRODUCTS, INC. Warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, when the product is used in accordance with online of Directions for Use under normal conditions of use, LIVELAND PRODUCTS, INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLED, INCLIDING BUT NOT LIMITED TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE BUYER'S OR USER'S EXCLUSIVE REMEDY FOR ANY INJURY, LOSS, OR DAMAGE RESULTING FROM THE HANDLING OR USE OF THIS PARTICULAR PARTIES THE SYSTEM 3 ON DEED SEALOWS REMEDI FOR NAT HOURT, WAS, OR DAMPINE RESULTING THAN THE PRODUCT SHOULD THE SELECT DESCRIPTION OF USE OF PRODUCT SHOULD PRODUCTS, INC. AND THE SELECT DAMAGES NOT EXCEEDING THE PURCHASE PRICE OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT SHOULD SHOUL OR USER OF THIS PRODUCT FOR ANY CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES, OR DAMAGES IN THE NATURE OF A PENALTY.

TURF TRAX (BLUE) 2.5 GALLON 803:2

TURF TRAX® BLUE

SUPERSEDES: 07/14/15

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

DATE OF ISSUE: 11/14/17

I. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 PRODUCT IDENTIFIER:

TRADE NAME: TURF TRAX® BLUE

1.2 RECOMMENDED USE: BLUE SPRAY INDICATOR FOR TURF USE

1.3 SUPPLIER DETAILS:

LOVELAND PRODUCTS, INC.

P.O. Box 1286 • Greeley, CO 80632-1286

1.4 24-Hour Emergency Phone: 1-800-424-9300 - Medical Emergencies: 1-866-944-8565 - Product Information: 1-888-574-2878 (LPI-CUST) U.S. Coast Guard National Response Center: 1-800-424-8802

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to 29 CFR 1910.1200

This product is not classified as dangerous according to the OSHA Hazard Communication Standard (29 CFR 1910.1200)

2.2 Label elements

This product is not classified as dangerous according to the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Signal word:

None.

2.3 Other hazards

None known

3. COMPOSITION, INFORMATION ON INGREDIENTS

3.1 Substances

Classification according to 29 CFR 1910.1200

3.2 Mixtures

Chemical Name:

CAS No.

Classification

Concentration [%]

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This product is not classified as dangerous according to the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Ingredients not precisely identified are proprietary or non-hazardous.

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

General Advice:

Get medical attention if symptoms occur.

Eye contact:

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5

minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Ingestion:

Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth

to an unconscious person.

Skin contact:

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or

doctor for treatment advice.

Inhalation:

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable by

mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

TURF TRAX® BLUE **DATE OF ISSUE: 11/14/17**

SUPERSEDES: 07/14/15

Most Important Symptoms and Effects, Acute and Delayed

Symptoms: May cause eye irritation.

Immediate Medical Attention and Special Treatment

Treatment: Treat symptomatically. Symptoms may be delayed.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565 Take container, label or product name with you when seeking medical attention.

NOTES TO PHYSICIAN:

No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the

patient.

FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:

Suitable Extinguishing Media: Foam, carbon dioxide (CO2), dry powder, water spray. Do not use water jet as this will spread the fire.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

During a fire, oxides of carbon and silicon dioxide can be released. Specific Hazards During Firefighting:

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Special Protective Equipment for Firefighters: Self-contained breathing apparatus and full protective gear should be worn in fighting large fires

involving chemicals. Use water spray to keep fire exposed containers cool. Keep people away. Isolate

fire and deny unnecessary entry.

ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Personal Precautions:

Avoid inhalation of vapors, dusts and spray mist and contact with skin and eyes. Ensure adequate

ventilation. Wear suitable protective clothing.

6.2 ENVIRONMENTAL PRECAUTIONS

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Do not allow to enter

drains, sewers, or watercourses. Toxic to aquatic life with long lasting effects.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP

Methods for Clean-Up:

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. After removal flush

contaminated area thoroughly with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to

Remove residual contamination.

Never return spills to original containers for re-use.

HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

Advice on Safe Handling:

Avoid inhalation of dusts, vapors / spray and contact with eyes, skin and clothing. Do not breathe dusts, mist or vapor. Wear personal protective equipment. Do not use in areas without adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling. Do not empty into drains. Handle and open container with care. Use care in handling/storage. Wash before eating, drinking and/or smoking.

7.2 CONDITIONS FOR SAFE STORAGE:

Requirements for Storage Areas and Containers:

Store in a cool, dry place. Store in original container. Keep container tightly closed. Do not reuse empty container. Do not contaminate water, food or feed by storage or disposal.

TURF TRAX® BLUE

SUPERSEDES: 07/14/15

DATE OF ISSUE: 11/14/17

EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS:

OCCUPATIONAL EXPOSURE LIMITS

U.S. Workplace Exposure Level (AIHA) WEELs

Components Type

No listings

Biological limit values

ACGIH Biological Exposure Indices

Components Specimen Value

No listings

8.2 EXPOSURE CONTROLS:

Engineering Measures

Provide adequate general and local exhaust ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors and spray mists. Provide eyewash station and safety shower.

Individual Protection Measures:

Eye / Face Protection: Goggles or shielded safety glasses are recommended.

Wear chemical resistant gloves, long-sleeved shirt, long pants, and shoes plus socks as needed. Skin Protection:

Respiratory Protection: In case of inadequate ventilation or risk of inhalation of dusts or vapors, use suitable respiratory equipment such as

MSHA/NIOSH TC-21C or NIOSH approved respirator with N, R, P or HE filter. Wear respiratory protection during operations where spraying or misting occurs. If respirators are used, a program should be in place to assure compliance with 29 CFR 1910.134, the OSHA Respiratory Protection standard. Wear air supplied respiratory

Value

protection if exposure concentrations are unknown.

Avoid contact with skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, Work Hygienic Practices:

chewing gum or using tobacco.

PHYSICAL AND CHEMICAL PROPERTIES

9.1 APPEARANCE: Liquid ODOR: Mild.

ODOR THRESHOLD: No data available.

COLOR: Blue. pH: 6.00

MELTING POINT / FREEZING POINT: No data available BOILING POINT: No data available >212 °F / >100 °C (TCC) FLASH POINT:

FLAMMABILILITY (solid, gas): No data available.

UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: No data available.

VAPOR PRESSURE: No data available.

SOLUBILITY: Dispersible

PARTITION CO-EFFICIENT, n-OCTANOL / WATER: No data available.

AUTO-IGNITION TEMPERATURE: No data available. DECOMPOSITION TEMPERATURE: No data available VISCOSITY, dynamic: No data available SPECIFIC GRAVITY (Water = 1): 1.017g/ml

DENSITY: 8.49 lbs/gal | 1.02 kg/L

These physical data are typical values based on material tested but may vary from sample to sample. Note:

Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

10.1 REACTIVITY

Stable

10.2 CHEMICAL STABILITY

Stable under normal temperature conditions

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No reactions known under normal use conditions. Will not polymerize.

10.4 CONDITIONS TO AVOID

Cold temperatures.

10.5 INCOMPATIBILE MATERIALS

Strong oxidizing agents, peroxides, acids, alkali metals. 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

May release of oxides of carbon in a fire situation.



SDS NUMBER: 1000236307-17-LPI SDS REVISIONS: SEC. 2

TURF TRAX® BLUE

SUPERSEDES: 07/14/15

11. TOXICOLOGICAL INFORMATION

11.1 LIKELY ROUTES OF EXPOSURE

Eye contact, skin contact.

LC₅₀ (rat): No data available.

LD₅₀ Oral (rat): No data available

LD₅₀ Dermal (rabbit): No data available

Acute Toxicity Estimates: No data available.

Skin Irritation (rabbit): No data available.

Eye Irritation (rabbit): No data available.

Specific Target Organ Toxicity: Single exposure: No data available.

Aspiration: No data available

Skin Sensitization (guinea pig): Not a sensitizer

Carcinogenicity: No data available
Germ Cell Mutagenicity: No data available

Interactive Effects: None known

12. ECOLOGICAL INFORMATION

12.1 ECOTOXICITY

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. This product is not intended for use in aquatic settings.

Ecotoxicological Data

Components

Species

Test Results

DATE OF ISSUE: 11/14/17

No data available.

Drift or runoff may adversely affect non-target plants.

Do not apply directly to water.

Do not contaminate water when disposing of equipment wash water.

Do not apply when weather conditions favor drift from target area.

12.2 PERSISTENCE AND DEGRADABILITY

Biodegradability: No data available

12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulation: No data available.

12.4 MOBILITY IN SOIL

No data available.

12.5 OTHER ADVERSE EFFECTS

Assessment:

No data available.

SDS NUMBER: 1000236307-17-LPJ SDS REVISIONS: SEC. 2

TURF TRAX® BLUE DATE OF ISSUE: 11/14/17

SUPERSEDES: 07/14/15

13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Wastes may be disposed of on site or at an approved waste disposal facility. Triple rinse (or equivalent), adding rinse water to spray tank. Offer container for recycling or dispose of in a sanitary landfill or by other procedures approved by appropriate authorities. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at http://www.acrecycle.org/. Do not contaminate water, food or feed by storage or disposal.

14.	TRAN	SPORT	INFORM	ATION
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14.1 LAND TRANSPORT

DOT Shipping Description: NOT REGULATED.

U.S. Surface Freight Classification: DYESTUFFS, NOI (NMFC 60280; CLASS 70)

15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS

NFPA & HMIS Hazard Ratings: **NFPA HMIS** Health 0 Least Health Flammability Slight Flammability 1 0 Instability 2 Moderate 0 Reactivity 3 High B PPE

Severe

SARA Hazard Notification/Reporting

SARA Title III Hazard Category: Immediate Fire Sudden Release of Pressure N Delayed Reactive

Reportable Quantity (RQ) under U.S. CERCLA: Not listed.

SARA, Title III, Section 313: Not listed RCRA Waste Code: Not listed CA Proposition 65: Not applicable

16. OTHER INFORMATION

SDS STATUS: Section 2 revised.

PREPARED BY: Registrations and Regulatory Affairs

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REVIEWED BY: Environmental Health and Safety

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