



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.

Header 14

List View

General Information

Contact

Default Values

Discount

Document Information

Procurement Folder: 666571

SO Doc Code: CRFQ

Procurement Type: Central Master Agreement

SO Dept: 0603

Vendor ID:

SO Doc ID: ADJ2000000010

Legal Name: SOUTHERN STATES COOPERATIVE INC

Published Date: 12/20/19

Alias/DBA:

Close Date: 1/2/20

Total Bid: \$0.00

Close Time: 13:30

Response Date:

Status: Closed

Response Time:

Solicitation Description:

Total of Header Attachments: 14

Total of All Attachments: 14



Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

**State of West Virginia
 Solicitation Response**

Proc Folder : 666571
Solicitation Description : Addendum No. 1 - Patriot Gardens
Proc Type : Central Master Agreement

Date issued	Solicitation Closes	Solicitation Response	Version
	2020-01-02 13:30:00	SR 0603 ESR12311900000003851	1

VENDOR
000000197271 SOUTHERN STATES COOPERATIVE INC

Solicitation Number: CRFQ 0603 ADJ2000000010

Total Bid : \$0.00 **Response Date:** 2019-12-31 **Response Time:** 11:52:30

Comments: If a substitution is bid in, it will be typed BELOW the asked for item, and indicated with an asterisk.
 All SDS sheets are attached for all substitutes. Thank you!

FOR INFORMATION CONTACT THE BUYER
 Tara Lyle
 (304) 558-2544
 tara.l.lyle@wv.gov

Signature on File **FEIN #** **DATE**

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

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Fertilizers and plant nutrients and herbicides	0.00000	EA	\$0.000000	\$0.00

Comm Code	Manufacturer	Specification	Model #
10170000			

Extended Description : Agricultural chemicals per the attached specifications.
 IF VENDOR IS SUBMITTING AN ELECTRONIC BID:
 Vendor MUST complete the ATTACHED Pricing Page, Exhibit A. If bidding electronically, vendor is to put \$0.00 on the

EXHIBIT A

WV Adjutant General's Office - Patriot Guardens
Insecticides, Herbicides, Fertilizers, & Fungicides

Pricing Page - CRFQ ADJ20*10

CONTRACT ITEM NO.	DESCRIPTION	Unit of Measure	Unit Price	Estimated quantity	Extended Quantity Price
	3.1 INSECTICIDES				
3.1.1	Wrangler Insecticide Loveland Products (or Equal) Indicate Qty of Gallons per Container: 1	Gallon	\$130.00	100	\$13,000.00
	* Bidding WinField Advise Four				
3.1.2	Lannate SP Insecticide DuPont (or Equal) Indicate Qty of Pounds per Container: 2	Pound	\$38.00	100	\$3,800.00
3.1.3	Assail 30 SG Insecticide United Phosphorus, Inc. (or Equal) Indicate Qty of Ounces per Container:	Fluid Ounce		100	\$ No Bid
3.1.4	Sevin XLR Plus Insecticide NocaSource Tessenderlo Group (or Equal) Indicate Qty of Pints per Container: 20	Per Pint	\$7.19	100	\$719.00
3.1.5	Imidan 70-W Insecticide Gowan Company (or Equal) Indicate Qty of Pounds per Container: 5	Pound	\$14.00	100	\$1,400.00
	3.2 HERBICIDES				
3.2.1	Surflan A.S. Pre-Emergent Herbicide United Phosphorus Inc. (or Equal) Indicate Qty of Gallons per Container: 2.5	Gallon	\$69.09	100	\$6,909.00
3.2.2	Trellis SC Pre-Emergent Herbicide Dow Chemical Company (or Equal) Indicate Qty of Gallons per Container: 1	Gallon	\$455.00	100	\$45,500.00
3.2.3	Diuron 4L Herbicide Loveland Products, Inc. (or Equal) Indicate Qty of Pounds per Container: 2.5 *	Pound Gallon	\$19.05	100	\$1,905.00
	*This product, and your specs indicate this is a liquid. Units are in gallons.				
3.2.4	Sinbar WDG Herbicide NovaSource Tessenderlo Group (or Equal) Indicate Qty of Pounds per Container: 5	Pound	\$55.00	100	\$5,500.00
3.2.5	Garmoxone Inteon Herbicide Syngenta Crop Protection (or Equal) Indicate Qty of Pints per Container: 20	Per Pint	\$3.50	75	\$262.50

3.2.6	Surfactant For Herbicides	Per Pint	\$2.00	75	\$150.00
	Southern AG (or Equal)				
	Indicate Qty of Pints per Container: 20				
	*Bidding WinField Top Surf				
3.2.7	Roundup WeatherMAX Herbicide *	Gallon	\$21.90	100	\$2,190.00
	Monsanto Company (or Equal)				
	Indicate Qty of Gallons per Container: 2.5				
	*WeatherMAX is discontinued. Bidding PowerMAX.				
	3.3 FERTILIZERS				
3.3.1	LoKomotive 2-0-25 Fertilizer	Gallon	\$20.00	100	\$2,000.00
	Loveland Products, Inc. (or Equal)				
	Indicate Qty of Gallons per Container: 2.5				
	*Bidding Monty's K-28 Liquid				
3.3.2	Black Label 6-22-0 Fertilizer	Gallon		100	\$ No Bid
	Loveland Products, Inc. (or Equal)				
	Indicate Qty of Gallons per Container:				
3.3.3	16x16x16 All-Purpose Fertilizer	Pound	\$0.30	10,000	\$3,000.00
	The Andersons (or Equal)				
	Indicate Qty of Pounds per Container: 50				
	*Bidding SSC 17-17-17 All Purpose				
3.3.4	46-0-0 Urea Fertilizer	Pound	\$0.21	10,000	\$2,100.00
	PowerLine Products (or Equal)				
	Indicate Qty of Pounds per Container: 50				
3.3.5	Fullback 6% Magnesium Foilar & Soil Nutrient	Gallon	\$24.10	100	\$2,410.00
	Loveland Products, Inc. (or Equal)				
	Indicate Qty of Gallons per Container: 2.5				
	*Bidding WinField Max-In Magnesium				
3.3.6	Mor-Calcium Fertilizer	Gallon	\$24.00	100	\$2,400.00
	Genesis AGRI Products Inc. (or Equal)				
	Indicate Qty of Gallons per Container: 2.5				
	*Bidding WinField Max-In Calcium				
3.3.7	Pellitized Agricultural Lime	Pound	\$0.12	10,000	\$1,200.00
	NutraLime DG (or Equal)				
	Indicate Qty of Pounds per Container: 40				
	*Bidding SSC Branded/Oldcastle Bagged Pelleted Limestone				
	3.4 FUNGICIDES				
3.4.1	Sonoma 20 EW AG Fungicide	Gallon		100	\$ No Bid
	Agri Star (or Equal)				
	Indicate Qty of Gallons per Container:				
3.4.2	Kocide 3000 Fungicide	Pound	\$6.00	100	\$ 600.00
	DuPont (or Equal)				
	Indicate Qty of Pounds per Container: 10				
3.4.3	Syllit FL Fungicide	Per Pint	\$9.03	75	\$ 677.25
	Arysta LifeScience (or Equal)				
	Indicate Qty of Pints per Container: 20				

3.4.4	Procure 480SC Fungicide Chemtura Corporation (or Equal) Indicate Qty of Ounces per Container:	Fluid Ounce		50	\$ No Bid
3.4.5	Penncozeb 75DF Fungicide United Phosphorus, Inc Indicate Qty of Pounds per Container: 30	Pound	\$6.00	100	\$ 600.00
3.4.6	AG Steptomycin Bactericide Makhteshim Agan of N. America (or Equal) Indicate Qty of Pounds per Container: 2	Pound	\$15.00	100	\$1,500.00
*Bidding Nufarm Agri-Mycin					
3.4.7	Captan Fungicide Southern AG (or Equal) Indicate Qty of Pounds per Container: 30	Pound	\$3.50	100	\$ 350.00
3.4.8	Mancozeb Flowable w/Zinc Fungicide Bonide (or Equal) Indicate Qty of Ounces per Container: 16	Fluid Ounce	\$1.40	100	\$140.00
3.4.9	Topsin M70WP Fungicide United Phosphorus, Inc. (or Equal) Indicate Qty of Ounces per Container:	Ounce		50	\$ No Bid
3.4.10	Flint Extra Fungicide Bayer Crop Science (or Equal) Indicate Qty of Ounces per Container: 32	Fluid Ounce	\$10.00	50	\$500.00
3.4.11	Badge SC Fungicide Gowan Company (or Equal) Indicate Qty of Gallons per Container: 2.5	Gallon	\$48.10	100	\$4,810.00
Unit prices to be inclusive of all freight/delivery costs. Failure to use this form will result in automatic disqualification.				Overall Total Cost:	\$103,622.80
* Quantities are estimated for bid evaluation purposes only.					
Bidder / Vendor Information:					
Name: Southern States Cooperative, Inc.					
Address: 44 Service Road Summersville, WV 26651-9711					
Phone: 304-872-3518					
Fax:					
E-mail Address: kerri.abbott@sscoop.com					
Authorized Signature: <i>Ken Abbott</i> Date: 12/31/2019					

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, failure 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 exceeds 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: Southern States Cooperative, Inc.

Authorized Signature: Ken Abbott Date: 12/31/2019

State of Virginia

County of Harrison, to-wit:

Taken, subscribed, and sworn to before me this 30 day of December, 2019.

My Commission expires December 31, 2022



NOTARY PUBLIC Christine C. White

REQUEST FOR QUOTATION

CRFQ 06030 ADJ2000000010

ADJUTANT GENERAL AGRICULTURAL INSECTICIDES, HERBICIDES, FERTILIZERS & FUNGICIDES

- 8.3 Reports:** Vendor shall provide quarterly reports and annual summaries to the Agency showing the Agency's items purchased, quantities of items purchased, and total dollar value of the items purchased. Vendor shall also provide reports, upon request, showing the items purchased during the term of this Contract, the quantity purchased for each of those items, and the total value of purchases for each of those items. Failure to supply such reports may be grounds for cancellation of this Contract.
- 8.4 Contract Manager:** During its performance of this Contract, Vendor must designate and maintain a primary contract manager responsible for overseeing 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. Vendor should list its Contract manager and his or her contact information below.

Contract Manager: Keri Abbott
Telephone Number: 804-281-1342
Fax Number: 804-287-2099
Email Address: keri.abbott@sscoop.com

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.

Keri Abbott, Inside Sales Representative

(Name, Title)

Keri Abbott, Inside Sales Representative

(Printed Name and Title)

6606 W Broad Street Richmond, VA 23230

(Address)

804-281-1342 Fax: 804-287-2099

(Phone Number) / (Fax Number)

keri.abbott@sscoop.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.

Southern States Cooperative, Inc.

(Company)

Keri Abbott, Inside Sales Representative

(Authorized Signature) (Representative Name, Title)

Keri Abbott, Inside Sales Representative

(Printed Name and Title of Authorized Representative)

12/31/2019

(Date)

804-281-1342 Fax: 804-287-2099

(Phone Number) (Fax Number)



Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

State of West Virginia
 Request for Quotation
 01 - Agricultural

Proc Folder: 666571

Doc Description: Addendum No. 1 - Patriot Guardians

Proc Type: Central Master Agreement

Date Issued	Solicitation Closes	Solicitation No	Version
2019-12-20	2020-01-02 13:30:00	CRFQ 0603 ADJ2000000010	2

BID RECEIVING LOCATION

BID CLERK
 DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2019 WASHINGTON ST E
 CHARLESTON WV 25305
 US

VENDOR

Vendor Name, Address and Telephone Number:

Southern States Cooperative, Inc.
 44 Service Road
 Summersville, WV 26651-9711
 304-872-3518

FOR INFORMATION CONTACT THE BUYER

Tara Lyle
 (304) 558-2544
 tara.l.yyle@wv.gov

Signature X

Ken Abbott

FEIN # 54-0387200

DATE 12/31/2019

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

ADDITIONAL INFORMATION:

Addendum No. 1 - to issue responses to vendor questions. See attached pages.

The bid opening remains on 01/02/2020 at 1:30 pm.

No other changes.

AGRICULTURAL CHEMICALS AS SPECIFIED HEREIN FOR
THIER APPLE ORCHARD AND NURSERY PROGRAMS LOCATED NEAR SUMMERSVILLE, WV.

IF VENDOR IS SUBMITTING AN ELECTRONIC BID:

Vendor MUST complete the ATTACHED Pricing Page, Exhibit A. If bidding electronically, vendor is to put \$0.00 on the commodity line in wvOASIS, complete the Excel pricing page, and upload into wvOASIS as an attachment. Only pricing submitted via Exhibit A pricing page will be evaluated for award.

INVOICE TO		SHIP TO	
STATE FINANCE ADJUTANT GENERALS OFFICE 1703 COONSKIN DR		DIVISION ENGINEERING & FACILITIES ADJUTANT GENERALS OFFICE 1707 COONSKIN DR	
CHARLESTON	WV25311-1085	CHARLESTON	WV 25311
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Fertilizers and plant nutrients and herbicides	0.00000	EA		

Comm Code	Manufacturer	Specification	Model #
10170000			

Extended Description :

Agricultural chemicals per the attached specifications.

IF VENDOR IS SUBMITTING AN ELECTRONIC BID:

Vendor MUST complete the ATTACHED Pricing Page, Exhibit A. If bidding electronically, vendor is to put \$0.00 on the commodity line in wvOASIS, complete the Excel pricing page, and upload into wvOASIS as an attachment. Only pricing submitted via Exhibit A pricing page will be evaluated for award.

SCHEDULE OF EVENTS

Line	Event	Event Date
1	Technical questions due by 11:00 am	2019-12-20

ADJ2000000010	Document Phase Draft	Document Description Addendum No. 1 - Patriot Gardens Orchard Chemicals	Page 3 of 3
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ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

SOLICITATION NUMBER: CRFQ ADJ2000000010

Addendum Number: 1

The purpose of this addendum is to modify the solicitation identified as CRFQ ADJ2000000010 ("Solicitation") to reflect the change(s) identified and described below.

Applicable Addendum Category:

- Modify bid opening date and time
- Modify specifications of product or service being sought
- Attachment of vendor questions and responses
- Attachment of pre-bid sign-in sheet
- Correction of error
- Other-

Additional Documentation:

1. Responses to vendor questions attached.
2. The bid opening remains on 01/02/2020 at 1:30 pm.

Terms and Conditions:

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

CRFQ ADJ2000000010
ADDENDUM NO. 1

Questions:

Q1: Pricing: pricing is firm for the life of the contract. Is this for the life of the ONE year contract, or is the pricing also firm for any renewals? Some of the commodities vary in price from year to year, so I would like clarification on this.

A1: Pricing: Prices are to be firm for the life of the contract. One year. Pass-through price increases may be considered at time of renewal only but not guaranteed to be approved. Price increase requests may only be considered in a pass-through price increase format. No price percentage increases will be considered.

Q2: And are payment terms net 30?

A2: Payment terms are net 30.

Other Information:

1. The bid opening remains on January 2, 2020 at 1:30 pm.

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CRFQ ADJ200000010

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.

Addendum Numbers Received:

(Check the box next to each addendum received)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that 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.

Southern States Cooperative, Inc.

Company

Ken Abbott

Authorized Signature

12/31/2019

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.



1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Advise Four Insecticide
EPA Reg. No.: 228-528-1381
Product Type: Insecticide
Company Name: Winfield Solutions, LLC
 P.O. Box 64589
 St. Paul, MN 55164-0589

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 1-877-424-7452

This product is an EPA FIFRA registered pesticide. Some classifications on this SDS are not exactly the same as on the FIFRA label. Certain sections 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:

None

HEALTH HAZARDS:

Acute toxicity, inhalation	Category 4
Specific target organ toxicity – Repeated Exposure	Category 2
Eye irritation	Category 2B
Skin irritation	Category 2

ENVIRONMENTAL HAZARDS:

Hazardous to aquatic environment, acute	Category 3
Hazardous to aquatic environment, chronic	Category 1

SIGNAL WORD: WARNING

HAZARD STATEMENTS:

Harmful if inhaled. May cause damage to heart, thyroid, liver, blood chemistry through prolonged or repeated exposure. Causes eye irritation. Causes skin irritation Very toxic to aquatic life with long lasting effects.



PRECAUTIONARY STATEMENTS

Avoid breathing dust, vapors or spray. Use oily in well-ventilated area. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center if you feel unwell. See product label and Section 4 for emergency medical advice/attention.

Wash hands and exposed skin thoroughly after handling. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If on skin: Wash with plenty of water. Specific treatment: See product label and Section 4 of this data sheet. Take off contaminated clothing and wash it before reuse.

If skin or eye irritation occurs: Get medical advice/ attention.

Avoid releases to the environment. Collect spillage.



Dispose of contents/container in accordance with State and Federal Regulations. See product label for disposal instructions.

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENTS	CAS NO.	% BY WEIGHT
Imidacloprid	138261-41-3	39.2 – 41.6
Propylene glycol	57-55-6	7.6 – 8.4
Other Ingredients	Trade Secret	Trade Secret

Synonyms: 1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

4. FIRST AID MEASURES

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.

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 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 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.

Most important symptoms/effects, acute and delayed: Difficulty breathing, changes in blood chemistry; heart, thyroid, liver damage. Skin and eye irritation.

Indication of immediate medical attention and special treatment if needed, if necessary: Skin irritation, eye irritation, difficulty breathing.

5. FIRE FIGHTING MEASURES

Flash Point: >212° F (>100° C)

Autoignition Temperature: Not determined

Flammability Limits: Not determined

Extinguishing Media: Water, carbon dioxide, dry chemical or foam.

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: If water is used to fight fire, contain runoff, using dikes to prevent contamination of water supplies. Dispose of fire control water later.

Hazardous Decomposition Materials (Under Fire Conditions): May produce gases such as hydrogen chloride, hydrogen cyanide, 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. Absorb and place into container 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:

Harmful if inhaled. Harmful if swallowed. Causes moderate eye irritation. Avoid breathing spray mist. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Avoid contact with eyes or clothing. 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 Personal Protective Equipment (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 a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If the container is leaking, invert to prevent leakage. If container is leaking or material spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides below. In spill or leak incidents, keep unauthorized people away.

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 shielded safety glasses. 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 plus socks, and chemical-resistant gloves made of waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton. 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:

Component	OSHA		ACGIH		WEEL	Unit
	TWA	STEL	TWA	STEL	TWA	
Imidacloprid	NE	NE	NE	NE	NE	NE
Propylene glycol					10	mg/m ³

NE = Not Established

WEEL = AIHA Workplace Environmental Exposure Level

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Opaque liquid
Odor:	Mild sweet odor
Odor threshold:	No data available
pH:	6 – 7.36



Melting point/freezing point:	No data available
Initial boiling point and boiling range	No data available
Flash point:	>212° F (>100° C)
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Relative density:	1.206 g/cc
Solubility(ies):	Soluble in water, immiscible in hydrocarbons
Partition coefficient: n-octanol/water:	No data available
Autoignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	208.295 cSt @ 20° C 102.790 cSt @ 20° C
VOC Emission Potential (%):	5.22

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: Stable under normal conditions of use.

Chemical Stability: This material is stable under normal handling and storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Excessive heat. For imidacloprid, strong exothermic reaction above 200° C.

Incompatible Materials: Not known.

Hazardous Decomposition Products: Under fire conditions, may produce gases such as hydrogen chloride, hydrogen cyanide, and oxides of carbon and nitrogen.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, eye and skin contact.

Symptoms of Exposure: Mildly irritating based on toxicity studies. Minimally toxic and slightly irritating to the skin based on toxicity studies. Moderately toxic based on toxicity studies. Moderate to low inhalation toxicity based on toxicity studies. Inhalation of glycerin mists may cause irritation of respiratory tract.

Delayed, immediate and chronic effects of exposure: None known.

Toxicological Data:

Data from laboratory studies conducted are summarized below:

Oral: Rat LD₅₀: 1,139 mg/kg

Dermal: Rat LD₅₀: >5,000 mg/kg

Inhalation: Rat 4-hr LC₅₀: <2.02 mg/L

Eye Irritation: Rabbit: Mildly irritating

Skin Irritation: Rabbit: Slightly irritating

Skin Sensitization: Not a contact sensitizer in guinea pigs following repeated skin exposure.

Subchronic (Target Organ) Effects: Repeated overexposure to imidacloprid, may effect heart, thyroid, blood chemistry, and liver

Carcinogenicity / Chronic Health Effects: Prolonged overexposure to imidacloprid can cause effects to the thyroid. Imidacloprid did not cause cancer in laboratory animal studies. The U.S. EPA has given imidacloprid a Group E classification (evidence of non-carcinogenicity in humans).

Reproductive Toxicity: In a two-generation reproduction study in rats, imidacloprid produced reduced mean body weights and body weight gains. No other reproductive effects were observed.

Developmental Toxicity: Rat and rabbit studies on imidacloprid resulted in skeletal abnormalities, increased resorptions (rabbits) and reduced body weight gains at doses that were also toxic to mother animals.

Genotoxicity: The imidacloprid mutagenicity studies, taken collectively, demonstrate that imidacloprid is not genotoxic or mutagenic.

Assessment Carcinogenicity: None listed with ACGIH, IARC, NTP or OSHA.



12. ECOLOGICAL INFORMATION

Ecotoxicity:

Data on Imidacloprid Technical:

96-hour LC ₅₀ Rainbow Trout:	211 mg/l	Japanese Quail Oral LD ₅₀ :	31 mg/kg
48-hour EC ₅₀ Daphnia:	85 mg/l	Bobwhite Quail Oral LD ₅₀ :	152 mg/kg
96-hour LC ₅₀ Mysid:	0.038 ppm	House Sparrow Oral LD ₅₀ :	41 mg/kg
48-hour Honey Bee Contact LD ₅₀ :	0.078 µg/bee	48-hour Honey Bee Oral LD ₅₀ :	0.0039 µg/bee

Environmental Fate:

Hydrolysis half-life of imidacloprid is greater than 30 days at pH 7 and 25°C. The aqueous photolysis half-life is less than 3 hours. The soil surface photolysis of imidacloprid has a half-life of 39 days, and in soil, the half-life ranged from 26 to 229 days.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:

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

Container Handling and Disposal:

Nonrefillable Containers 5 Gallons or Less:

Nonrefillable 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 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. If recycling or reconditioning not available, 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. 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. If practical, 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.

Refillable containers for return to Winfield Solutions, LLC:

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Close all openings and replace all caps. Contact Winfield Solutions, LLC to arrange for return of the empty refillable container.

**14. TRANSPORTATION INFORMATION**

Follow the precautions indicated in Section 7: HANDLING AND STORAGE of this MSDS.

DOT

Non Regulated

IMDG

UN 3082, Environmentally hazardous substance, liquid, n.o.s, (Imidacloprid), 9, III, Marine Pollutant

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 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. Harmful if inhaled. Harmful if swallowed. Causes moderate eye irritation. Avoid breathing spray mist. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Avoid contact with eyes or clothing. Wear protective eye wear. Wear long sleeved shirt and long pants, socks, shoes, and chemical resistant gloves made of waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton.

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):**

Immediate and delayed.

Section 313 Toxic Chemical(s):

None

Reportable Quantity (RQ) under U.S. CERCLA:

None

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: 2 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, Winfield Solutions, LLC 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 Winfield Solutions, LLC 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: August 13, 2018

Supersedes: March 3, 2015

Safety Data Sheet

NFPA HAZARD RATING				U.S. TRANSPORT SUMMARY	
0	Least				Not regulated as a hazardous material for ground transport. (See Section 14 for additional information)
1	Slight	1	Health		
2	Moderate	0	Flammability		
3	High	0	Reactivity		
4	Severe				

SECTION 1: IDENTIFICATION	
Product Name:	Top Surf®
EPA Registration #:	Exempt
Product ID/Unity #:	10001393, 10051723, 10128035, 66175415
Common Name:	Agricultural adjuvant
Chemical Description:	Nonionic surfactant
Recommended Uses:	Agricultural Adjuvant. See product label for complete list of recommended uses and use sites.
Restrictions for Use:	See product label for information regarding restrictions on the use of this product.
Manufactured For: WINFIELD SOLUTIONS, LLC P. O. Box 64589 St. Paul, MN 55164-0589	MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs) Non-Emergency Business Inquiries: 1-855-494-6343 Mon – Fri 8am – 5pm (Central Standard Time)
FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL: CHEMTREC 1-800-424-9300 (24 hours)	

SECTION 2: HAZARDS IDENTIFICATION	
EMERGENCY OVERVIEW: Clear, gold to amber liquid with an alcohol odor. Causes eye irritation. Harmful if swallowed.	
POTENTIAL HEALTH EFFECTS: Eyes: May cause moderate but temporary irritation to the eyes. Skin: Prolonged or repeated exposure may cause mild skin irritation. Inhalation: May be harmful if inhaled. Ingestion: May be harmful if swallowed. Preexisting Conditions: Pre-existing respiratory conditions may be aggravated by exposure to mists. Chronic Health Effects: None known.	
Carcinogenicity	NTP: Not listed IARC: Not listed OSHA: Not listed
OSHA HCS 2012 CLASSIFICATION: Eye Irritant Category 2B; Acute Oral Toxicity Category 4	
SIGNAL WORD: WARNING	
HAZARD STATEMENTS: Causes eye irritation. Harmful if swallowed.	
Percent of product with unknown toxicity: 0%	
PRECAUTIONARY STATEMENTS: Prevention: Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Response: If in eyes: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists get medical attention. If Swallowed: Immediately call a poison control center (1-877-424-7452) or doctor for treatment advice. Rinse mouth. Storage: See section 7 for information on product storage. Disposal: Dispose of contents/container in accordance with Federal, state and local regulations.	

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	% (wt)	CAS Reg. #
Proprietary blend of alcohol ethoxylate and alkylphenol ethoxylate	80.0%	68002-97-1 & 9016-45-9
*Ingredients not specifically listed are non-hazardous and are considered to be confidential business information under 29 CFR 1910.1200(i).		
See Section 8 for exposure limits.		

SECTION 4: FIRST AID MEASURES

Inhalation:	Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention or call a poison control center for treatment advice
Ingestion:	Seek medical attention or call a poison control center immediately. 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.
Eyes:	Flush eyes with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. Seek medical attention if irritation persists.
Skin:	Remove contaminated clothing and wash before re-using them. Wash exposed skin with soap and water. Seek medical attention if skin becomes irritated.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use water spray, alcohol foam, dry chemical, or carbon dioxide (CO₂).

Unsuitable Extinguishing Media: Water jet.

Special Fire Fighting Procedures: Wear NIOSH/MSHA approved self-contained breathing apparatus and full bunker gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Avoid breathing vapors; keep upwind.

Hazardous Combustion Products: Toxic gases such as carbon monoxide and other asphyxiates may form.

Unusual Fire and Explosion Hazards: Heat may build pressure and rupture closed containers, spreading fire and increasing the risk of injury.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.

Environmental Precautions: Keep spilled product from entering nearby sewers or waterways.

Methods for Containment: Contain spilled liquid by diking area with sand or earth.

Methods for Clean-up: Cover contained spill with an inert absorbent material such as sand, vermiculite or other appropriate material. Vacuum, scoop or sweep up material and place in a container for disposal. Do not place spilled material back in original container.

Other Information: No other information available.

SECTION 7: HANDLING AND STORAGE

Handling: Ensure adequate ventilation. Immediately clean up spills that occur during handling. Keep containers closed when not in use. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Storage: Store in cool, dry area away from children, feed and food products in an area away from incompatible substances. Protect packaging from physical damage. Protect from exposure to fire. Maintain product between 40°F and 120°F.

Minimum Storage Temperature: 40°F

Other Precautions: Consult Federal, state and local laws and regulations pertaining to storage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION			
Exposure Guidelines			
Component:	OSHA PEL	ACGIH TLV	NIOSH REL
No components have exposure guidelines.			
Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear an OSHA/NIOSH-approved respirator.			
Engineering Controls: Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.			
Protective Gloves: Wear chemically protective gloves to prevent repeated exposure to the skin. Eye Protection: To avoid contact with eyes, wear chemical goggles or shielded safety glasses. Contact lenses are not eye protective devices. An emergency eyewash or water supply should be readily accessible to the work area. Other Protective Clothing or Equipment: Wear long-sleeve shirt, long pants and shoes plus socks to prevent prolonged or repeated skin contact.			
Work/Hygienic Practices: Never eat, drink, nor use tobacco in work areas. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.			

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES			
Physical State:	Liquid	Specific Gravity (H₂O=1):	1.06 (typical)
Vapor Pressure (mm Hg):	Not determined	Density (lbs/gallon):	8.85 lbs/gal (typical)
Vapor Density (Air=1):	Not determined	Melting Point/Freezing Point:	<40°F
Solubility in Water (wt %):	Soluble	Boiling Point/Range:	212°F
Viscosity:	Not determined	pH (5% Solution):	4.0 – 7.0
Appearance and odor:	Clear, gold to amber liquid with an alcohol odor	Flash Point:	175°F - 180°F

SECTION 10: STABILITY AND REACTIVITY	
Reactivity: None known.	
Chemical Stability: Product is stable at ambient temperature and pressure, under normal storage and handling.	
Possibility of Hazardous Reactions: None known.	
Conditions to Avoid: Avoid heat and open flame. Isolate from strong oxidizing agents	
Incompatible Materials: Strong oxidizing agents	
Hazardous Decomposition Products: Toxic gases such as carbon monoxide and other asphyxiates may form.	

SECTION 11: TOXICOLOGICAL INFORMATION	
ACUTE TOXICITY	
Eye Effects:	Causes moderate but temporary irritation
Skin Effects:	LD50 > 2000 mg/kg (rabbit); slightly irritating
Acute Inhalation Effects:	Not determined
Acute Oral Effects:	LD50 >1300 mg/kg (rat); Swallowing can cause severe abdominal irritation, nausea, vomiting, and diarrhea
Specific Target Organ Toxicity:	None known.
CHRONIC TOXICITY	
Chronic Effects:	Not anticipated to have chronic health effects due to exposure.
Carcinogenicity:	None of the components of this product are known or suspected of having carcinogenic effects.
Mutagenicity:	None of the components of this product are known or suspected of having mutagenic effects.
Teratogenicity:	None of the components of this product are known or suspected of having teratogenic effects.
Reproductive Toxicity:	None of the components of this product are known or suspected of having effects on the reproductive system.

Continued on Next Page

POTENTIAL HEALTH EFFECTS:

Eyes: May cause moderate but temporary irritation to the eyes.
Skin: Prolonged or repeated exposure may cause mild skin irritation.
Inhalation: May be harmful if inhaled.
Ingestion: May be harmful if swallowed.

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: Not determined

ECOTOXICITY DATA:

Fish Acute and Prolonged Toxicity: Not determined
Aquatic Invertebrate Acute Toxicity: Not determined
Aquatic Plant Toxicity: Not determined
Bird Acute and Prolonged Toxicity: Not determined
Honeybee Toxicity: Not determined

ENVIRONMENTAL EFFECTS:

Soil Absorption/Mobility: Not determined
Persistence and degradability: Not determined
Bioaccumulative Potential: Not determined
Other adverse effects: None known

SECTION 13: DISPOSAL CONSIDERATIONS

Waste: Dispose of in accordance with applicable Federal, state and local laws and regulations.
Container: Triple rinse and recycle the container or dispose of in accordance with Federal, state and local laws and regulations.
RCRA Characteristics: It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

SECTION 14: TRANSPORT INFORMATION

DOT:
(Ground) Not regulated by the U.S. Department of Transportation as a hazardous material.
IMDG:
(Sea) Not regulated as a hazardous substance for shipment by sea.
IATA:
(Air) Not regulated as a hazardous substance for shipment by air.
TDG:
(Canada) Not regulated for transport as a hazardous substance.

SECTION 15: REGULATORY INFORMATION

TSCA Inventory: All components are listed on the TSCA inventory or are exempt from listing.
SARA Title III Information:
Section 302 - Extremely hazardous substances: None listed
Section 311/312 - Hazard Categories: None listed
Section 313 - The following chemicals are subject to the reporting requirements of Section 313 of Title III, Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372:
 None listed
CERCLA - This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA):
 None listed
California Proposition 65: This product contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

Continued on next page

U.S. State Worker and Community Right-To-Know (RTK) Information (CT, IL, MA, MN, NH, NJ, PA, RI):

Chemical Name	CAS #	State(s)
None listed		

Canadian Domestic Substances List: All components are listed.

WHMIS Classification: Not classified

Other Information: A maximum of 1 ppm Ethylene Oxide (CAS # 75-21-8) may be present in this product. The OSHA PEL and the ACGIH TLV for Ethylene Oxide are 1 ppm. Ethylene Oxide is a NTP, IARC, and OSHA carcinogen. Ethylene Oxide has also been determined to be a reproductive hazard. The trace levels of Ethylene Oxide in this product are not expected to result in acute or long-term hazards when handled according to the precautions set forth in this SDS. However, Ethylene Oxide may accumulate in the container headspace and be released into the ambient environment. It is the responsibility of the employer to comply with OSHA Ethylene Oxide standards (29 CFR 1910.1047).

SECTION 16: OTHER

Disclaimer: The information presented herein is based on available data from reliable sources and is correct to the best of WinField Solutions' knowledge. WinField Solutions, LLC makes no warranty, express nor implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.

Revision Date: August 25, 2017 **Supersedes document dated:** February 15, 2014

Sections Revised: 2, 16, 1st page header, footer



SAFETY DATA SHEET

Version 1

1. Identification of the Substance / Preparation and of the Company / Undertaking

Product Name: Monty's K28
Company Name:
Monty's Plant Food Co., 4800 Strawberry Ln., Louisville, KY 40209 (502) 489-9888
Emergency Telephone:
Monty's Plant Food Co., (502) 489-9888

2. Hazards Identification

GHS - Classification

Serious eye damage/eye irritation Category 2



Signal Word: Warning

Hazard Statements:

- Causes serious eye irritation

Physical Hazards

- None

Precautionary Statements:

- Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- If eye irritation persists: Get medical advice/attention

3. Composition / Information on Ingredients

Hazardous

Chemical Name	CAS No	Weight-%	EC No
Potassium Acetate	127-08-2	58-62	204-822-2

Non-Hazardous

Chemical Name	CAS No	Weight-%	EC No
Water	7732-18-5	38-42	231-791-2

4. First Aid Measures

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.

Skin Contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

Inhalation:	Move to fresh air. If symptoms persist, call a physician.
Ingestion:	Clean mouth with water and drink afterwards plenty of water. If symptoms persist, call a physician.
Note to Physicians:	Treat symptomatically.

5. Fire-fighting Measures

Flammable Properties:

Not combustible

Explosive Properties:

No information available

Suitable Extinguishing Media:

Water spray (fog), Carbon dioxide (CO₂), Dry chemical, Foam

Unsuitable Extinguishing Media:

No information available

Protective Equipment and Precautions for Firefighters:

In the event of a fire, wear full protective clothing and MSHA/NIOSH (approved or equivalent) self-contained breathing apparatus with full facepiece operated in the pressure-demand or other positive pressure mode

6. Accidental Release Measures

Personal Precautions:	Use only with adequate ventilation.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Other Information:	Not applicable.

7. Handling and Storage

Advice on Safe Handling:	Avoid contact with skin, eyes or clothing. Use only with adequate ventilation.
Storage Conditions:	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from any source of heat or ignition. Keep away from incompatible substances.
Incompatible Materials:	Strong oxidizing agents

8. Exposure Controls / Personal Protection

Engineering Controls:	Ensure adequate ventilation, especially in confined areas
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Personal protective equipment (PPE)

Eye/Face Protection: Tight sealing safety goggles.

Body Protection: Suitable protective clothing.

General Hygiene Considerations:

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State:	Liquid	Odor:	No information available
Appearance:	No information available	Odor Threshold:	No information available
Color:	No information available		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH:	7-8	5 % solution
"Salt Out" Point (°F):		No information available
Melting Point/Freezing Point:	-50 °C / -58 °F	No information available
Boiling Point/Boiling Range:		No information available
Flash Point:		No information available
Evaporation Rate (BuAc=1):		No information available
Flammability (solid, gas):		No information available
Flammability Limits in Air:		No information available
Upper Flammability Limit:		
Lower Flammability Limit:		
Vapor Pressure (mm Hg) :		No information available
Vapor density (Air =1)		No information available
Specific Gravity (H₂O=1):	1.34	No information available
Specific Gravity (2nd value):		No information available
Water Solubility:		No information available
Solubility(ies):		No information available
Partition Coefficient (n-octanol/water)		No information available
Autoignition Temperature:		No information available
Decomposition Temperature:		No information available
Kinematic Viscosity:		No information available
Dynamic Viscosity:		No information available
Oxidizing Properties:	No information available	
Explosive Properties:	No information available	

9.2. Other information

Softening Point:	No information available
Molecular Weight:	No information available
VOC Content(%):	No information available
Density:	No information available
Bulk Density:	No information available

10. Stability and Reactivity

Stability:	Stable under normal conditions of use and storage
Conditions to Avoid:	Heat, flames and sparks
Incompatible Materials:	Strong oxidizing agents
Hazardous Decomposition Products:	None under normal use conditions
Possibility of Hazardous Reactions:	None under normal processing

11. Toxicological Information

Product Information

Acute Toxicity:	0% of the mixture consists of ingredient(s) of unknown toxicity.
------------------------	--

Monty's K28

The following values are calculated based on chapter 3.1 of the GHS document

Chemical Name	Oral LD ₅₀ :	Dermal LD ₅₀ :	LC ₅₀ (Lethal Concentration):
Potassium Acetate	3250 mg/kg (Rat)		
Water	90 mL/kg (Rat)		

Chronic Toxicity:

Carcinogenicity: This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP

12. Ecological Information

Ecotoxicity

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Potassium Acetate		6800: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 semi-static	7170: 24 h <i>Daphnia magna</i> mg/L EC50

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

Mobility: No information available.

13. Disposal Considerations

Waste from Residues/Unused Products: Disposal should be in accordance with applicable regional, national and local laws and regulations

14. Transport Information

DOT

Description Not DOT Regulated

15. Regulatory Information

International Inventories

AICS Complies
TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies
ENCS -
IECSC Complies
KECL Complies
PICCS Complies

Chemical Name	AICS	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS
Potassium Acetate	Listed	Listed	Listed	-	Listed	-	(2)-692	Listed	KE-29069	Present

Monty's K28

Water	Listed	Listed	Listed	-	Listed	-	-	Listed	KE-35400	Present
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Inventory Legend

AICS - Australian Inventory of Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances **IECSC**

- China Inventory of Existing Chemical Substances **KECL** -

Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

RESTRICTIONS - REACH TITLE VII No information available

US Federal Regulations

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic health hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive hazard	No

U.S. State Right-to-Know Regulations

California Proposition 65:

This product does not contain any Proposition 65 chemicals

16. Other Information

National Fire Protection Association (NFPA) Ratings



Prepared By:

HSE Department

Monty's K28

Issue Date: 19-Feb-2013

Revision Date: 28-Jul-2014

Disclaimer:

Please be advised that it is your responsibility to inform your employees of the hazards of this substance, to advise them of what these properties mean and be sure they understand exposure information. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.

The information presented herein, while not guaranteed, was prepared by competent technical personnel and is true and accurate to the best of our knowledge. No warranty or guaranty, express or implied, is made regarding performance, stability, or otherwise. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, and storage. Other factors may require additional safety or performance considerations. While our technical personnel will be happy to respond to questions regarding safe handling and use procedures, the handling and use remains the responsibility of the consumer. No suggestions are intended as, and should not be constructed as, a recommendation to infringe on any existing patents or to violate any Federal, State, or local laws.

End of Safety Data Sheet

MATERIAL SAFETY DATA SHEET



Southern States Cooperative Inc.
P.O. Box 26234
Richmond, VA 23260

Blended Commercial Fertilizers

Emergency Phone: 804-281-1262
Chemtrec: 800-424-9300

Effective Date: 09/21/2011

1. PRODUCT IDENTIFICATION:

PRODUCT: A family of blended fertilizers.

2. HAZARDOUS INGREDIENTS:

Name	ACGIH Value mg/M ³	OSHA PEL mg/M ³
Limestone (72608-12-9)	10	15
Gypsum (99400-01-08)	10	15

OSHA nuisance dust limit of 15 mg/M³ (total) and 5 mg/M³ (respirable) & **ACGIH** nuisance dust limit of 10 mg/M³ (inhalable) and 3 mg/M³ (respirable) may apply to this product.

Micronutrients (generally present at less than 1% of the mixture):

Name(CAS No)	ACGIH mg/M ³	OSHA PEL mg/M ³
Iron Oxide (1332-37-2)	5	10
Iron Sulfate (7720-78-7)	1	ne
Copper oxide (1317-38-0)	0.2	1
Copper sulfate (7758-98-7)	1	ne
Manganese oxide (1313-13-9)	0.2	3 (C)
Manganese sulfate (7785-87-7)	0.2	3 (C)
Zinc oxide (1314-13-2)	10	15
Zinc sulfate (7446-19-7)	10 (1) 3 (2)	15 (3) 5 (4)

ne= not established

(C)= Ceiling limit

(1)inhalable, (2) respirable, (3) 8 hr TWA total,

(4) 8 hr TWA respirable

Nuisance dust particulates limits for micronutrients:

TLV=10 mg/M³; PEL=15 mg/M³

3. HAZARDS IDENTIFICATION:

EYE: Contact may cause eye irritation. Prolonged exposure may cause conjunctivitis.

SKIN: Prolonged exposure may cause significant skin irritation.

INGESTION: Very low toxicity if swallowed. May cause irritation of mouth and gastrointestinal tract. Do not induce vomiting. Call a Poison Control Center and have this MSDS available.

INHALATION: May irritate mucous membranes and respiratory tract. Symptoms include coughing, tightness in chest, difficulty in breathing, nausea, vomiting, headache, weakness and fatigue.

NFPA: HEALTH: 1	REACTIVITY: 0
FLAMMABILITY: 0	ENVIRONMENT: 0
(0=Insignificant 4=Extreme)	1= Slight 2=Moderate 3=High

4. FIRST AID:

EYE: Flush eyes thoroughly with water for several minutes. Remove contact lenses after initial 1-2 minutes and continue flushing for several additional minutes. If irritation occurs, seek medical attention.

SKIN: Wash skin with plenty of water. If irritation occurs, seek medical attention.

INGESTION: Call a poison control center or doctor for treatment advice. Have this MSDS available. 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.

INHALATION: Move person to fresh air.

NOTE 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

NFPA/HMIS RATING: Health (1) Fire (0) Reactivity (0)

FLASH POINT: Not flammable. Use procedures for surrounding materials.

EXTINGUISHING MEDIA: water, foam, carbon dioxide or dry chemicals.

FIRE & EXPLOSION HAZARDS: When heated to decomposition, product may emit toxic or noxious fumes of oxides of carbon, nitrogen, phosphorus or sulfur; or ammonia gas. Fire fighters should wear full protective equipment & self contained breathing apparatus. Prevent runoff from entering water systems. Keep non-essential

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personnel out of fire area. Fertilizer will become slippery when wet, guard against falls.

6. ACCIDENTAL RELEASE MEASURES:

Local spills: Contain spill. Prevent large quantities from contacting vegetation or entering waterways. If material is not contaminated, collect product and use according to label. If contaminated, place in appropriate containers for disposal. Comply with all local, state & federal regulations.

7. HANDLING AND STORAGE:

HANDLING: Avoid contact with eyes, skin or clothing. Do not take internally. Avoid breathing dust. Do not eat, drink or smoke while handling product. Wash after handling.

STORAGE: Store in a cool, dry place inaccessible to children and animals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

ENGINEERING CONTROLS: Good general ventilation should be sufficient for most conditions.

EYE/FACE PROTECTION: Use safety glasses.

SKIN PROTECTION: Gloves.

RESPIRATORY PROTECTION: Respiratory protection not normally required.

APPLICATORS AND ALL OTHER HANDLERS:

Respiratory Protection: Approved dust respirator when necessary.

Protective Clothing: Normal clean work clothing including heavy shoes.

Eye Protection: In dusty conditions, safety glasses with side shields or goggles may be necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE: Mixture of different colored, free flowing granules.

ODOR: No appreciable odor.

10. STABILITY AND REACTIVITY:

STABILITY: (CONDITIONS TO AVOID): Excessive heat and high humidity.

INCOMPATIBILITY: SPECIFIC MATERIALS TO AVOID: Acids, oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon, nitrogen, phosphorus and/or sulfur; ammonia gas.

HAZARDOUS POLYMERIZATION: Not known to occur.

11. TOXICOLOGICAL INFORMATION:

MUTAGENICITY: For the components tested, in-vitro and animal mutagenicity, studies were negative.

12. ECOLOGICAL INFORMATION:

Not expected to be acutely toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS:

Waste Disposal Method: Do not reuse empty container. Do not contaminate any waters by discharge of waste effluents or equipment washwaters. Dispose of waste materials only in accordance with applicable federal, state and local laws and regulations.

14. TRANSPORT INFORMATION:

U.S. DEPARTMENT OF TRANSPORTATION (DOT) INFORMATION: Not regulated.

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15. REGULATORY INFORMATION:

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SARA TITLE III; SEC 311/312 HAZARD CATEGORIES:

Immediate (Acute) Health: Yes
Delayed (Chronic) Health: No
Sudden Release of Pressure: No
Reactivity: No
Fire: No

STATE RIGHT-TO-KNOW: Regulations vary by state.
Check with state and local authorities.

OSHA HAZARD COMMUNICATION STANDARD:
Contains "Hazardous Chemicals" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

16. OTHER INFORMATION:

Format follows ANSI-Z400.1-2004

MATERIAL SAFETY DATA SHEET



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NOTE TO PHYSICIAN: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

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