



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
DNR209152

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
FRANK WHITTAKER
304-558-2316

RFQ COPY

TYPE NAME/ADDRESS HERE

DeAngelo Brothers, Inc. T/A Alenza
100 N. Conahan Drive
Hazleton, PA 18201

DIVISION OF NATURAL RESOURCES
 TWIN FALLS RESORT STATE PARK
 ATTN: PARK SUPERINTENDENT
 RT. 97, PO BOX 667
 MULLENS, WV
 25882 304-294-6000

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
03/19/2009				

BID OPENING DATE: **04/01/2009** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UQP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		335-42		
<p>GOLF COURSE CHEMICALS</p> <p style="text-align: center;">REQUEST FOR QUOTATION</p> <p>THE WEST VIRGINIA STATE PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF NATURAL RESOURCES, IS SOLICITING BIDS TO PROVIDE GOLF COURSE CHEMICALS FOR THE TWIN FALLS STATE PARK COURSE PER THE ATTACHED PRODUCT LIST.</p> <p>TECHNICAL QUESTIONS CONCERNING THIS SOLICITATION MUST BE SUBMITTED IN WRITING TO FRANK WHITTAKER IN THE WEST VIRGINIA STATE PURCHASING DIVISION VIA FAX AT 304-558-4115 OR VIA EMAIL AT FRANK.M.WHITTAKER@WV.GOV. DEADLINE FOR ALL TECHNICAL QUESTIONS IS THURSDAY, MARCH 26, 2009 AT THE CLOSE OF BUSINESS. ALL TECHNICAL QUESTIONS RECEIVED, IF ANY, WILL BE ANSWERED BY ADDENDUM AFTER THE DEADLINE HAS LAPSED.</p> <p>QUESTIONS CONCERNING THE ACTUAL PROCESS BY WHICH A VENDOR MAY SUBMIT A BID TO THE STATE OF WEST VIRGINIA ARE NOT CONSIDERED TO BE TECHNICAL QUESTIONS AND MAY BE SUBMITTED AT ANY TIME PRIOR TO THE BID OPENING AND IN ANY FORMAT.</p> <p>AERIFICATION OF THE GOLF COURSE IS SCHEDULED FOR APRIL 13, 2009. VENDOR MUST BE ABLE TO PROVIDE 20-4-10 W/ TEAM AND 18-3-18 GREENS GRADE, LEBANON COUNTRY CLUB BY THIS DATE. ALL OTHER CHEMICALS MUST BE DELIVERED WITHIN 2 WEEKS OF RECEIPT OF ORDER.</p>						

RECEIVED

2009 MAR 31 A 10:09

PURCHASING DIVISION
 STATE OF WV

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Todd Hagan</i>	TELEPHONE (570) 459-5048	DATE 3-27-09
TITLE <i>Chemical Sales Manager</i>	FEIN 23-2332783	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

**GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
5. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
14. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
15. **WEST VIRGINIA ALCOHOL & DRUG-FREE WORKPLACE ACT:** If this Contract constitutes a public improvement construction contract as set forth in Article 1D, Chapter 21 of the West Virginia Code ("The West Virginia Alcohol and Drug-Free Workplace Act"), then the following language shall hereby become part of this Contract: "The contractor and its subcontractors shall implement and maintain a written drug-free workplace policy in compliance with the West Virginia Alcohol and Drug-Free Workplace Act, as set forth in Article 1D, Chapter 21 of the West Virginia Code. The contractor and its subcontractors shall provide a sworn statement in writing, under the penalties of perjury, that they maintain a valid drug-free work place policy in compliance with the West Virginia and Drug-Free Workplace Act. It is understood and agreed that this Contract shall be cancelled by the awarding authority if the Contractor: 1) Fails to implement its drug-free workplace policy; 2) Fails to provide information regarding implementation of the contractor's drug-free workplace policy at the request of the public authority; or 3) Provides to the public authority false information regarding the contractor's drug-free workplace policy."

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in case of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130



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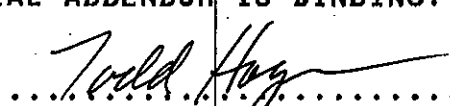
TYPE NAME/ADDRESS HERE

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100 N. Conahan Drive
Hazleton, PA 18201

DIVISION OF NATURAL RESOURCES
 TWIN FALLS RESORT STATE PARK
 ATTN: PARK SUPERINTENDENT
 RT. 97, PO BOX 667
 MULLENS, WV
 25882 304-294-6000

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03/19/2009				

BID OPENING DATE: **04/01/2009** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
EXHIBIT 10						
REQUISITION NO.:						
ADDENDUM ACKNOWLEDGEMENT						
I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.						
ADDENDUM NO.'S:						
NO. 1						
NO. 2						
NO. 3						
NO. 4						
NO. 5						
I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF TH ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.						
VENDOR MUST CLEARLY 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.						
 SIGNATURE						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Todd Hays</i>	TELEPHONE <i>(570) 459-5048</i>	DATE <i>3-27-09</i>
----------------------------	---------------------------------	---------------------

TITLE <i>Chemical Sales Manager</i>	FEIN <i>23-2332783</i>	ADDRESS CHANGES TO BE NOTED ABOVE
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<p><i>DeAngelo Brothers, Inc. T/A Alenza</i> COMPANY <i>3-27-09</i>..... DATE</p>						
<p>REV. 11/96</p> <p style="text-align: center;">NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p style="text-align: center;">DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: FRANK WHITTAKER-FILE 44.</p> <p>RFQ. NO.: DNR209152</p> <p>BID OPENING DATE: 04/01/2009</p> <p>BID OPENING TIME: 1:30 PM</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Todd Hays</i>	TELEPHONE <i>(576) 459-5048</i>	DATE <i>3-27-09</i>
TITLE <i>Chemical Sales Manager</i>	FEIN <i>23-2332783</i>	ADDRESS CHANGES TO BE NOTED ABOVE

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PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID: <p style="text-align: center;"><i>(570) 459-5500</i></p> <hr/> CONTACT PERSON (PLEASE PRINT CLEARLY): <p style="text-align: center;"><i>Todd Hagenbuch</i></p> <hr/> <p>***** THIS IS THE END OF RFQ DNR209152 ***** TOTAL:</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Todd Hag</i>	TELEPHONE <i>(570) 459-5048</i>	DATE <i>3-27-09</i>
TITLE <i>Chemical Sales Manager</i>	FEIN <i>23-233283</i>	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

DNRZ0910Z COST SHEET

No Bid

Item No.	Description	Packaged Per Case	Unit Price (case)	Quantity	Extended Cost
Fungicide					
1	Armor Tech PPZ 143	2 x 2.5 gal		4 cases	\$ No Bid
2	Rubigan	2 x 1 gal		4 cases	\$ No Bid
3	Chipco 26 GT	2 x 2.5 gal		4 cases	\$ No Bid
4	Cleary 3336 (FM 4.5 Flowable)	2 x 2.5 gal	7.H. \$ 521.25	4 cases	\$ 2,085.00
5	Daconil Weatherstik Flowable (60wv)	2 x 2.5 gal	\$ 227.50	4 cases	\$ 910.00
6	Daconil ZN (Chlorothaloxyl 500 ZN)	2 x 2.5 gal	\$ 201.25	4 cases	\$ 805.00
7	ProStar 70 WP	10 x 1 lb		4 cases	\$ No Bid
8	Subdue Maxx (Mefenoxam ZAG)	2 x 1 gal	\$ 870.90	2 cases	\$ 1,741.80
9	Fungicide IX	42.1 lb bag		22 bags	\$ 1,741.80 7.H.
			Subtotal Fungicide:		\$ 5,541.80
Insecticide					
10	Dylox 80	10 x 5 lb		3 cases	\$ No Bid
			Subtotal Insecticide:		\$ No Bid
Herbicide					
11	Bensumec	2 x 2.5 gal		4 cases	\$ No Bid
12	MCPP 4-Amine	2 x 2.5 gal		5 cases	\$ No Bid
			Subtotal Herbicide:		\$ No Bid
Wetting Agent					
13	Cascade Plus	2 x 2.5 gal		4 cases	\$ No Bid
			Subtotal Wetting Agent:		\$ No Bid
Liquid Fertilizer					
14	29-2-3 Liquid Fertilizer	2 x 2.5 gal		5 cases	\$ No Bid
15	Roots 1-2-3	2 x 2.5 gal		4 cases	\$ No Bid
			Subtotal Liquid Fertilizer:		\$ No Bid
Fertilizer					
16	20-4-10 w/ Team	50 lb bag		100 bags	\$ No Bid
17	22-3-8 w/ Merit	50 lb bag		130 bags	\$ No Bid
18	18-5-9 Lebanon Country Club	50 lb bag		40 bags	\$ No Bid
19	18-3-18 Greens Grade, Lebanon Country club	50 lb bag		40 bags	\$ No Bid
			Subtotal Fertilizer:		\$ No Bid
Total Bid					\$ 5,541.80

Chlorothaloxyl
720 S

** Note: All proven equals will be accepted for the products listed above.

Product List

Please complete the below information concerning the brand(s) of items being bid in relation to this project.

The model/brand/specifications named herein establish the acceptable level of quality only and are not intended to reflect a preference or favor any particular brand or vendor. Vendors who are bidding alternates should so state and include pertinent literature and specifications. Failure to provide information for any alternates may be grounds for rejection of the bid. The State reserves the right to waive minor irregularities in bids or specifications in accordance with section 148-1-4 (F) of the West Virginia Legislative Rules and regulations.

Line Item:	Manufacturer	Part No.
1	No Bid	
2	No Bid	
3	No Bid	
4	Quali-Pro	TM 4.5 Flowable
5	Quali-Pro	Chlorothalonil 720 SFT
6	Quali-Pro	Chlorothalonil 500 ZN
7	No Bid	
8	Quali-Pro	Me fenoxam ZAQ
9	No Bid	
10	No Bid	
11	No Bid	
12	No Bid	
13	No Bid	
14	No Bid	
15	No Bid	
16	No Bid	
17	No Bid	
18	No Bid	
19	No Bid	

**For vendors supplying alternates, please provide supporting documentation detailing how the product bid is equal.

State of West Virginia VENDOR PREFERENCE CERTIFICATE

Certification and application* is hereby made for Preference in accordance with *West Virginia Code*, §5A-3-37. (Does not apply to construction contracts). *West Virginia Code*, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the *West Virginia Code*. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

1. Application is made for 2.5% resident vendor preference for the reason checked:

- Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,
- Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,
- Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,

2. Application is made for 2.5% resident vendor preference for the reason checked:

- Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,

3. Application is made for 2.5% resident vendor preference for the reason checked:

- Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,

4. Application is made for 5% resident vendor preference for the reason checked:

- Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,

5. Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:

- Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,

6. Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:

- Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Under penalty of law for false swearing (*West Virginia Code*, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: DeAngelo Brothers, Inc. T/A Alenza Signed: Todd Hau
 Date: 3-27-09 Title: Chemical Sales Manager

*Check any combination of preference consideration(s) indicated above, which you are entitled to receive.

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

VENDOR OWING A DEBT TO THE STATE:

West Virginia Code §5A-3-10a provides that: 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 the debt owed is an amount greater than one thousand dollars in the aggregate.

PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

If this is a solicitation for a public improvement construction contract, the vendor, by its signature below, affirms that it has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code*. The vendor **must** make said affirmation with its bid submission. Further, public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code* and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the *West Virginia Code* may take place before their work on the public improvement is begun.

ANTITRUST:

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

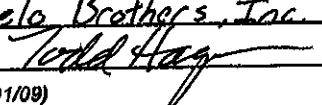
LICENSING:

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.

Under penalty of law for false swearing (*West Virginia Code* §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

Vendor's Name: DeAngelo Brothers, Inc. T/A Alcaza
Authorized Signature:  Date: 3-27-09

TM 4.5

Turf & Ornamental Fungicide

Specimen Label

ACTIVE INGREDIENT:

Thiophanate-methyl: (dimethyl [(1,2-phenylene)-bis (iminocarbonothioyl)] bis [carbamate])*

46.2%
INERT INGREDIENTS: 53.8%
TOTAL: 100.0%

*Also known as dimethyl 4,4-o-phenylenebis (3-thioallophanate)

*4.5 lbs. Active Ingredient per gallon

EPA Reg. No. 48234-12-73220

(BO) EPA Est. No. 37429-GA-02

(BT) EPA Est. No. 37429-GA-01

KEEP OUT OF REACH OF CHILDREN CAUTION/AVISO

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.)

FIRST AID	
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 a poison control center or doctor for further advice.
HOTLINE NUMBER Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For medical emergencies involving this product, call 1-800-308-5391.	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if inhaled or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Avoid breathing spray mist. Remove contaminated clothing and wash clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

- Long-sleeved shirt and pants
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

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.

USER SAFETY RECOMMENDATIONS

- Users should: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Users should: Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should: 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.

ENVIRONMENTAL HAZARDS

DO NOT apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. **DO NOT** contaminate water when disposing of equipment washwaters.

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.

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
- Shoes plus socks

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 treated areas without protective clothing until spray has dried.

GENERAL INFORMATION

Apply Quali-Pro TM 4.5 with ground equipment, using sufficient volume of spray to provide thorough coverage. Add required amount of Quali-Pro TM 4.5 to partially filled tank agitated by mechanical or hydraulic means and then add remaining required amount of water. Continuous agitation is required to keep the material in suspension. **DO NOT** tank mix with copper-containing materials or with highly alkaline pesticides, such as Bordeaux mixture or lime sulfur. No claim of compatibility with other pesticides is implied. Use the higher rates under conditions of severe disease pressure. Also, see local State Extension Service recommendations for application schedules.

Chemigation instructions follow **DIRECTIONS FOR USE**. **DO NOT** apply through any irrigation system unless these instructions are followed. **DO NOT** use on turf being grown for sale as sod.

Not for homeowner use. For use by individuals/firms licensed or registered by the state to apply ornamental or turf pest control products.

IMPORTANT: If, after using Quali-Pro TM 4.5 as recommended, treatment is not effective, a tolerant strain of fungi may be present (consult your FarmSaver.com representative). Consult your State Agricultural Experiment Station or your State Agricultural Extension Service for advice on the prompt

use of some other suitable fungicide.

TURF

For use on all fine turf applications such as industrial lawns, athletic fields, residential and public areas (home lawns, parks, athletic fields, schools and day care centers **Professional application** only), cemeteries, golf course greens, tees, and fairways of Bentgrasses, Blue Grasses, Bermudagrasses, Fescues, Ryegrasses, St. Augustine grasses or their mixtures. Quali-Pro TM 4.5 is not phytotoxic to any of the above mentioned grasses when used in accordance with the label. Quali-Pro TM 4.5 is to be used for the prevention and control of the below mentioned diseases (provides both curative and protective action). Apply recommended amounts in sufficient water to obtain thorough coverage, usually three to five gallons per 1,000 square feet of turf area. When treating golf greens, always treat aprons and approaches. Use the highest recommended rate under conditions of severe disease pressure. **DO NOT** apply with fixed-wing or rotary aircraft.

FUSARIUM BLIGHT (*Fusarium roseum*), **SUMMER PATCH** (*Magnaporthe poae*), **NECROTIC RING SPOT** (*Leptosphaeria korrea*) – Apply Quali-Pro TM 4.5 at 5 fl.oz. per 1,000 square feet. Water into the root zone by irrigating with one inch of water immediately after application. Make two applications at 14 day intervals, beginning applications when the disease first appears.

GRAY LEAF SPOT (*Pyricularia grisea*) – Apply Quali-Pro TM 4.5 at 3 1/2 to 5 fluid oz./1,000 sq. ft. beginning when conditions are favorable for disease

development. Continue at 14 day intervals. Spray should dry on leaves with no “watering in.”

DOLLAR SPOT (*Sclerotinia homoeocarpa*), **ANTHRACNOSE** (*Collettricum graminicola*) – Apply Quali-Pro TM 4.5 at 1 to 2 fl.oz. per 1,000 square feet beginning when the disease first appears. Spray should dry on leaf surfaces with no “watering in.” Continue at 14 day intervals through the season or as needed.

LARGE BROWN PATCH (*Rhizoctonia solani*), **COPPER SPOT** (*Gloeocercospora sorghi*), **RED THREAD** (*Corticium fuciforme*), **FUSARIUM PATCH** (*Fusarium nivale*) – Apply Quali-Pro TM 4.5 at 1 to 2 fl. ounces per 1,000 square feet beginning when the disease first appears and continue at 14 day intervals through the season or as needed. Spray should dry on leaf surfaces with no “watering in.”

STRIPE SMUT (*Ustilago striiformis*) – Apply Quali-Pro TM 4.5 at 5 fl. ounces per 1,000 square feet. Water into the root zone by irrigating with one inch of water immediately after application. Make two applications at 14 to 21 day intervals. Begin applications when the disease first appears, either in the spring or fall.

Observe the maximum individual application rates and maximum seasonal application limits in the Quali-Pro TM 4.5 Maximum Application Rates table.

Quali-Pro TM 4.5 Maximum Application Rates				
Site	Maximum Individual Application Rate Per Acre OR Per 1000 Square Feet	Minimum Re-treat Interval In Days	Maximum Seasonal Total Per Acre	
			Product	Active Ingredient
Residential / Public Areas	77.5 fl oz/Acre OR 1.8 fl oz/1000 Square Feet	14 Days	310 fl oz/Acre OR 7.12 fl oz/1000 Square Feet	10.88 lbs. ai/Acre
Golf Course Greens / Tees / Aprons	233 fl oz/Acre OR 5.35 fl oz/1000 Square Feet	14 Days	620 fl oz/Acre OR 14.23 fl oz/1000 Square Feet	21.8 lbs. ai/Acre
Golf Course Fairways	155 fl oz/Acre OR 3.56 fl oz/1000 Square Feet	--	155 fl oz/Acre OR 3.56 fl oz/1000 Square Feet	5.45 lbs. ai/Acre
FL Golf Course Fairways Overseeded	77.5 fl oz/Acre OR 1.8 fl oz/1000 Square Feet	--	77.5 fl oz/Acre OR 1.8 fl oz/1000 Square Feet	2.72 lbs. ai/Acre

ORNAMENTALS (FIELD AND GREENHOUSE)

Quall-Pro TM 4.5 is a broad-spectrum systemic fungicide which controls a variety of diseases on woody herbaceous ornamental crops.

Quall-Pro TM 4.5 is also effective as a preplant dip on cuttings and bulbs. Quall-Pro TM 4.5 may be used to control the listed diseases on noncommercial bearing and non-bearing fruit trees: almond, apple, apricot, cherry, nectarine, peach, pecan, plum and prune trees. **DO NOT** apply to home orchards / fruit trees after fruit set, if fruit is intended for consumption.

I. FOLIAR SPRAY – HYDRAULIC APPLICATION

FOLIAR SPRAY--PLANT TYPES AND DISEASES CONTROLLED

DISEASE(S)	PLANT TYPES
Anthracnose	woody ornamentals, shade trees ¹
Ascochyta Blight	herbaceous ornamentals
Black spot	Roses
Botrytis (Gray Mold)	woody and herbaceous ornamentals
Cercospora Leaf Spot	woody and herbaceous ornamentals
Corynespora Leaf Spot	Ligustrum
Didymellina Leaf Spot	Iris
Diplodea Tip Blight (<i>Diplodea picea</i>)	shade and ornamental trees
Ovulinia	Azalea, Rhododendron ²
Entomosporium Leaf Spot	woody and herbaceous ornamentals
Phomopsis Blight	woody and herbaceous ornamentals
Powdery Mildew	woody and herbaceous ornamentals, ornamental nut and fruit trees
Ramularia Leaf Spot	herbaceous ornamentals
Scab	Pyracantha, Flowering Crab, ornamental fruit and nut trees
Septoria Leaf Spot	woody and herbaceous ornamentals

Key to Notes:

¹ Begin at bud break and make 2 or 3 additional applications at 10 to 14 day intervals.

² Begin treatment as flowers open. Addition of a surfactant to the spray mixture improves distribution of the spray on hard-to-wet plants such as roses.

Mixing Instructions: Add required amount of Quall-Pro TM 4.5 to partially filled tank agitated by mechanical or hydraulic means and then add remaining required amount of water. Maintain continuous agitation to keep the material in suspension and apply with properly calibrated spray equipment. Apply until leaves glisten, but not to the point of runoff.

Application Rates and Timing for Diseases: Begin applications when disease first appears and repeat at 10 to 14 day intervals during the growing season. Shorten the interval during humid, rainy weather.

Ground Application: Use 20 fl. oz. of Quall-Pro TM 4.5 per 100 gallons of water. For control of Powdery Mildew and Botrytis (Gray Mold), use 10 fl. oz. of Quall-Pro TM 4.5 per 100 gallons of water, or 1 teaspoonful per 2 gallons of water.

Foliar Spray for Bearing and Nonbearing Fruit Trees			
Plant Type	Disease	Rate fl oz / 100 Gal	Remarks
Almonds	Brown Rot Blossom Blight Scab	10.0	Apply at pink bud and petal fall.
Apples	Apple Scab Flyspeck Powdery Mildew Sooty Blotch Black Rot Brooks Fruit Rot	5.0 – 10.0	Apply at 5 – 10 day intervals from green tip through petal fall. Repeat at 7 – 14 day intervals or as needed.
Pecans	Scab Brown Spot Downy Spot Powdery Mildew Liver Spot Stem End Blight Zonate Leaf Spot	10.0	Begin applications when first leaves are showing and repeat at 3 – 4 week intervals until shuck split. DO NOT apply after shuck split.
Stone Fruit Apricots Cherries Nectarines Peaches Plums & Prunes	Brown Rot Blossom, Fruit Brown Rot	10.0	Apply at early bloom. Make a second application at full bloom. In addition for Fruit Brown Rot, apply 1 to 2 sprays starting 3 weeks before harvest. If needed, under severe disease pressure, apply additional sprays at 10 – 14 day intervals between pre-harvest sprays. DO NOT apply within 1 day of harvest.
Cherries	Powdery Mildew	10.0 Plus 10.0	Apply at early bloom. Make a second application at full bloom. Plus Apply at shuck fall and first cover. DO NOT apply within 1 day of harvest.
Peaches	Peach Scab	10.0 – 15.0 Plus 5.0 – 10.0	Apply at early bloom. Make second application at full bloom if conditions favor disease development. Plus Apply at shuck split at first cover sprays. DO NOT apply within 1 day of harvest.
Plums & Prunes	Leaf Spot	10.0	Apply at petal fall, shuck, and at first, second, and third cover sprays at 10 – 14 day intervals and 1 spray 14 to 21 days after harvest. DO NOT apply within 1 day of harvest.

II. DRENCH-PLANT TYPES AND DISEASES CONTROLLED

DISEASE(S)	PLANT TYPES
Botrytis	herbaceous annuals, perennials and bedding plants
Fusarium	herbaceous annuals, perennials and bedding plants
Sclerotinia stem, crown & roots	herbaceous annuals, perennials and bedding plants
Cylindrocladium rot	woody ornamentals (such as Azaleas, Rhododendrons, conifers, Poinsettias)
Thielaviopsis rot	woody ornamentals (such as Azaleas, Rhododendrons, conifers, Poinsettias)

NOTE: Quali-Pro Quali-Pro TM 4.5 does not control *Pythium* spp. or *Phytophthora* spp.

Mixing Instructions: Add required amount of Quali-Pro TM 4.5 to partially filled tank agitated by mechanical or hydraulic means and then add remaining required amount of water. Maintain continuous agitation to keep the material in suspension.

Application Rates and Timing for Disease Control: Use 10 - 20 fl. oz. of Quali-Pro TM 4.5 per 100 gallons of water. Apply as a drench or heavy spray to 800 sq. ft of bench area (1 to 2 pints per square foot) after transplanting into propagation beds or containers. Repeat at 2 to 4 week intervals during periods favorable for disease.

III. PREPLANT DIP TREATMENT-PLANT TYPES AND DISEASES CONTROLLED

DISEASE(S)	PLANT TYPES
Botrytis	herbaceous annuals, perennials and bedding plants
Fusarium	herbaceous annuals, perennials and bedding plants
Sclerotinia stem, crown & roots	herbaceous annuals, perennials and bedding plants
Cylindrocladium rot	woody ornamentals (such as Azaleas, Rhododendrons, conifers, Poinsettias)
Thielaviopsis rot	woody ornamentals (such as Azaleas, Rhododendrons, conifers, Poinsettias)
Fusarium and Penicillium rots	bulbs (Easter Lily, Tulip, Gladiolus, Daffodil, Iris)

Application Rates and Timing for Disease Control:

Plants or Cuttings: Use 20 fl ounces of Quali-Pro TM 4.5 per 100 gallons of water. Immerse plants or cuttings for 10 to 15 minutes; remove and allow to drain. Wear rubber gloves.

Bulbs: Use 33 fl. ounces of Quali-Pro TM 4.5 per 100 gallons of water, or 2 teaspoonfuls of Quali-Pro TM 4.5 per gallon of water. Soak cleaned bulbs for 15 to 30 minutes in warm dip (80° to 85° F) preferably within 48 hours after digging. Dry bulbs after treatment. If bulbs are for forcing, treat bulbs that have been heat-cured.

NOTICE TO USER: Plant tolerance to Quali-Pro TM 4.5 has been found to be acceptable on all ornamentals that it has been tested on. Due to the large number of species and varieties of ornamental and nursery plants, it is impossible to test every one for tolerance to Quali-Pro TM 4.5. Neither the manufacturer nor the seller has determined whether or not Quali-Pro TM 4.5 can be used safely on ornamental plants not specified on this label. The professional user should determine if Quali-Pro TM 4.5 can be used safely prior to commercial use. In a small area test the recommended rates on a small number of plants for phytotoxicity prior to widespread use. Before using Quali-Pro TM 4.5 in tank mixture with other products, test the mixture on a small number of plants for phytotoxicity prior to widespread use.

CHEMIGATION**GENERAL INSTRUCTIONS**

Apply this product only through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move. **DO NOT** apply this product through any other type of irrigation system. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water. If you have any questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts. A person

knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

DO NOT connect chemigation system to any public water system. Public water system means a system for the provision of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

SYSTEM REQUIREMENTS

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional, automatic, quick-closing valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

INSTRUCTIONS FOR SPRINKLER (OVERHEAD) IRRIGATION

Observe the requirements in the **SYSTEM REQUIREMENTS** section above. **DO NOT** apply when wind speed favors drift beyond the area intended for treatment.

Maintain a gentle continuous agitation in mix tank during mixing and application to ensure a uniform suspension. Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute suspension per unit of time. Application of more than recommended quantities of irrigation water per acre may result in decreased product performance.

DO NOT apply when wind speed favors drift, when system connections or fittings leak, when nozzles **DO NOT** provide uniform distribution or when lines containing the product cannot be flushed and must be dismantled and drained. In a center pivot system, block the nozzle set nearest the well/pivot/injection unit to prevent spray being applied to this area.

When sprinkler distribution patterns **DO NOT** overlap sufficiently, unacceptable disease control may result.

Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water.

Quali-Pro TM 4.5 may be applied in conjunction with chemically neutral liquid fertilizers. Application in conjunction with highly alkaline fertilizers, such as aqueous ammonia, may cause a degradation of the pesticide, resulting in reduced performance and should be avoided. Check local restrictions and requirements regarding sprinkler irrigation applications, as they may vary from state to state.

SPRAY PREPARATION

Remove scale, pesticide residues, and other foreign matter from the chemical tank and entire injector system. Flush with clean water.

Prepare a suspension of Quali-Pro TM 4.5 in a mix tank. Fill the tank with 1/2 to 3/4 the desired amount of water. Start mechanical or hydraulic agitation. Slowly add the required amount of Quali-Pro TM 4.5 and then the remaining volume of water.

APPLICATION INSTRUCTIONS

Set sprinkler system to deliver 0.1 to 1.25 inches of water per acre. Volumes of water higher than this may reduce efficacy. Start sprinkler and then uniformly inject the suspension of Quali-Pro TM 4.5 into the irrigation water line so as to deliver the desired rate per acre. The suspension of Quali-Pro TM 4.5 should be injected with a positive displacement pump into the main line ahead of a right angle turn to ensure adequate mixing.

NOTE: When treatment with Quall-Pro TM 4.5 has been completed, **DO NOT** irrigate the treated area for 24 to 48 hours to prevent washing the chemical off the crop.

STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage or disposal.
PESTICIDE STORAGE: Store in the original container in a dry area.
DO NOT store in a manner where cross-contamination with other pesticides, fertilizers, food or feed could occur. If spilled during storage or handling, sweep up spillage and dispose of in accordance with the Pesticide Disposal Instructions listed below.
PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If wastes cannot be disposed of according to label instructions, contact your State or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.
CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

CONDITIONS OF SALE AND WARRANTY

The **DIRECTIONS FOR USE** of this product are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of FarmSaver.com, LLC or the seller. All such risks shall be assumed by the buyer.

FarmSaver.com, LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth in the **DIRECTIONS FOR USE** when it is used in accordance with such directions, subject to the inherent risks mentioned above.

FARMSAVER.COM, LLC NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY EXTENDS TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS, OR CAUTIONS. BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLER'S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR, THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. FARMSAVER.COM, LLC and the seller offer this product, and the Buyer and User accept it, subject to the foregoing CONDITIONS OF SALE AND WARRANTY.

FarmSaver.com, LLC
 PO Box 21365
 Seattle, WA 98111

Quall-Pro is a trademark of FarmSaver.com LLC
 EPA 030204

1. IDENTIFICATION

Product name: **Quali-Pro[®] TM 4.5 Turf & Ornamental Fungicide**
 Chemical name of active ingredient(s): Thiophanate-methyl: [Dimethyl (1,2-phenylene) bis (iminocarbonothioyl)] bis [carbamate]
 Manufacturer: FarmSaver.com, LLC.
 4515 Falls of Neuse Road, Suite 300
 Raleigh, NC 27609
 Phone: 1-800-979-8994
 For fire, spill, and/or leak emergencies, contact CHEMTREC: Phone: 1-800-424-9300
 Outside US: 1-703-527-3887
 For medical emergencies and health and safety inquiries, contact Prostar: Phone: 1-800-308-5391

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMMON NAME	CAS NO.	%	OSHA PEL	ACGIH TLV	OTHER	NTP/IARC/OSHA (Carcinogen)
Thiophanate-methyl NA=Not available	23564-05-8	46.2	NA	NA	NA	NA

3. HAZARDS IDENTIFICATIONS

PHYSICAL PROPERTIES

Appearance: Off-white liquid
Odor: Characteristic odor

EMERGENCY OVERVIEW: CAUTION Harmful if inhaled or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Avoid breathing spray mist. Remove contaminated clothing and wash clothing before reuse.

PRIMARY ROUTES OF EXPOSURE: Skin and eye contact, ingestion and inhalation.

4. FIRST AID MEASURES

FIRST AID	
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of soap and water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
IF INHALED:	<ul style="list-style-type: none"> 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 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. For medical emergencies involving this product, call 1-800-308-5391.	

5. FIRE FIGHTING MEASURES

FLASH POINT: Not applicable
FLAMMABLE LIMITS: LFL/UFL: Not applicable
EXTINGUISHING MEDIA: Water, foam, CO₂, dry chemical, earth or sand.
HAZARDOUS DECOMPOSITION PRODUCTS: Not applicable.
SPECIAL FIRE-FIGHTING PROCEDURES: None known.

6. ACCIDENTAL RELEASE MEASURES

Avoid contact with skin, eyes and clothing. Do not let product enter drains. Use good housekeeping practices. Control spill with dykes and absorb with inert absorbant material. Pick up wash liquid with absorbant material and place in container for disposal. If material is uncontaminated, collect and reuse as recommended for product. If material is contaminated, put in appropriate container and dispose.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING: Wash thoroughly after handling. Do not get in eyes, on skin or on clothing. Do not breathe dust. Keep container closed. Use only with adequate ventilation.

PRECAUTIONS TO BE TAKEN IN STORAGE: Store in the original container in a dry area. **DO NOT** store in a manner where cross-contamination with other pesticides, fertilizers, food or feed could occur. If spilled during storage or handling, sweep up spillage and dispose of in accordance with the Pesticide Disposal Instructions listed below.

STORAGE TEMPERATURE (MIN/MAX): Normal ambient temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

EYE PROTECTION: Not required – Use normal safety precautions.

SKIN PROTECTION: Long-sleeved shirt and long pants. Shoes plus socks.

HAND PROTECTION: Chemical-resistant gloves made of any waterproof material.

RESPIRATOR REQUIREMENTS: Not required – Use normal safety precautions.

VENTILATION: Whenever possible, adequate ventilation should be used to minimize the need for personal protective equipment.

ADDITIONAL PROTECTIVE MEASURES: 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 and maintaining PPE. If no such instructions for washables, 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 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.

EXPOSURE GUIDELINES: Refer to Section 2.

ENGINEERING CONTROLS: Use adequate ventilation to minimize airborne concentrations of this material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off-white liquid

Odor: Characteristic odor

FLASH POINT: Not applicable

pH: 5-6

BOILING POINT: ca. 100°C

SOLUBILITY IN H₂O: Dispersible

SPECIFIC GRAVITY (H₂O=1): 1.213 @ 20/21°C

DENSITY: 1.21 g/mL (10.12 lbs/gallon)

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal use and storage conditions.

MATERIALS TO AVOID: None known.

HAZARDOUS POLYMERIZATION: Not applicable.

INSTABILITY CONDITIONS: None known.
HAZARDOUS DECOMPOSITION PRODUCTS: None known.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY/IRRITATION STUDIES

Acute Oral LD ₅₀ (Rat):	Not available
Acute Dermal LD ₅₀ (Rabbit):	Not available
Acute Inhalation LC ₅₀ (Rat):	Not available
Eye Irritation:	Mildly irritating
Dermal Irritation:	Not available
Dermal Sensitization:	Not available

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

13. DISPOSAL CONSIDERATIONS

END USERS MUST DISPOSE OF ANY UNUSED PRODUCT AS PER THE LABEL RECOMMENDATIONS.

PRODUCT DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If wastes cannot be disposed of according to label instructions, contact your State or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance..

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

14. TRANSPORT INFORMATION

DOT CLASSIFICATION:

Packaging < 2.13 gals : Not regulated

Packaging = or > 2.13 gals : UN3082, Environmentally hazardous substances, liquid, N.O.S.
(Thiophanate-methyl), 9, PGIII, RQ

INTERNATIONAL TRANSPORTATION

IMO (vessel): Not regulated

IATA (air): Not regulated

15. REGULATORY INFORMATION

SARA TITLE III CLASSIFICATION:

Section 302:	Not applicable.
Section 311/312:	Acute health hazard (immediate)
Section 313:	Thiophanate-methyl (46.2%) CAS# 23564-05-8

CA PROPOSITION 65: This product contains a chemical (thiophanate-methyl) that is known to the State of California to cause female and male reproductive toxicity.

CERCLA RQ: Thiophanate-methyl RQ= 10 lbs. (Product= 21.6 lbs/2.13 gals)

RCRA CLASSIFICATION: 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.

TSCA STATUS: The ingredients of this product are listed on the TSCA inventory or are exempt.

16. OTHER INFORMATION

HAZARD RATINGS	NFPA	HMIS	
HEALTH:	1	1	0 MINIMAL
FLAMMABILITY:	0	0	1 SLIGHT
REACTIVITY:	0	0	2 MODERATE
			3 HIGH
			4 SEVERE

MSDS DATE: 3-2-09. Supersedes versions dated 2-20-09 and 9-27-07; Changes made to sections 14.

The information herein is given in good faith, but no warrant, express or implied, is made. Consult FarmSaver.com, LLC. for further information.

QUALI-PRO

Chlorothalonil 720 SFT Liquid Flowable

Specimen Label

ACTIVE INGREDIENT: Chlorothalonil 720 SFT (tetrachloroisophthalonitrile) 54.0%
INERT INGREDIENTS: 46.0%
TOTAL 100.00%
Contains 6.0 Pounds of Active Ingredient Per Gallon (720 Grams Per Liter)

BY WEIGHT

EPA REG. NO. 72167-24-73220

(BO) EPA Est. No. 37429-GA-02

(BT) EPA Est. No. 37429-GA-01

KEEP OUT OF REACH OF CHILDREN WARNING – AVISO

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.)

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.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For medical emergencies involving this product, call 1-800-308-5391.	
NOTE TO PHYSICIAN	
Persons having temporary irritation may respond to treatment with antihistamines or steroid creams and/or systemic steroids.	

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Causes eye irritation. May cause skin irritation. May be a potential skin sensitizer. **DO NOT** get into eyes. Avoid prolonged contact with skin. Avoid breathing spray mist. **DO NOT** take internally.

Note to user: This product may produce temporary allergic side effects characterized by redness of the eyes, mild bronchial irritation and redness or rash on exposed skin areas. Persons having allergic reactions should contact a physician.

PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category A on an EPA chemical-resistance category selection chart.

For WPS or non-WPS applications made in enclosed areas, such as greenhouses, applicators and other handlers must wear a NIOSH-approved respirator with any N, P, R, or HE filter.

WPS Uses (commercial production on farms, forests, nurseries, sodfarms, and in greenhouses): Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as nitrile rubber, natural rubber, or butyl rubber
- Shoes plus socks
- Protective eyewear

Non-WPS Uses (such as applications to non-residential turf, golf courses, public parks, etc.): Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as nitrile rubber, natural rubber, or butyl rubber

- Shoes plus socks
- Protective eyewear

Follow the 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 enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR part 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 PPE immediately after handling this product.
- Wash outside of gloves before removing.
- As soon as possible, wash thoroughly and change into clean clothing.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to aquatic invertebrates and wildlife. **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 neighboring areas. **DO NOT** contaminate water when disposing of equipment washwater or rinsate.

This chemical is known to leach through soil into groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This chemical can contaminate surface water through spray drift. Under some conditions, it may also have a high potential for runoff into surface water for several days to weeks after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow ground water, areas within field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlaying tile drainage systems that drain to surface water.

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.

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 nitrile rubber, natural rubber, or butyl rubber
- Shoes plus socks
- Protective eyewear

Special Eye Irritation Provisions: This product is a severe eye irritant. Although the restricted-entry interval expires after 12 hours, for the next 6.5 days, entry is permitted only when the following safety measures are provided:

- (1) At least one container designed specifically for flushing eyes must be available in operating condition at the WPS-required decontamination site intended for workers entering the treated area.
- (2) Workers must be informed, in a manner they can understand:
 - that residues in the treated area may be highly irritating to their eyes,
 - that they should take precautions, such as refraining from rubbing their eyes, to keep residues out of their eyes,
 - that if they do get residues in their eyes, they should immediately flush their eyes using the eyeflush container that is located at the decontamination site or using other readily available clean water, and
 - how to operate the eyeflush container.

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 others to enter the treated area until sprays have dried.

STORAGE AND DISPOSAL

DO NOT contaminate water, foodstuffs, feed or seed by storage or disposal.

Pesticide Storage: Store in a cool place. Protect from excessive heat. Store product in original container only away from water, food or feed. Keep container closed to prevent spills and contamination. Carefully open containers. After partial use, replace lid and close tightly. **DO NOT** put concentrate or diluted product into food or drink containers.

Pesticide Disposal: **DO NOT** contaminate water, food or feed by disposal. Improper disposal of excess pesticide, pesticide spray or rinsate is a violation of Federal Law. Wastes resulting from the use of this product that cannot be used according to the label instructions or chemically reprocessed may be disposed of on site or at a landfill or waste disposal facility approved for pesticide disposal, or in accordance with all applicable Federal, state, or local regulations. For further guidance, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal: Empty containers retain vapor and product residues. Follow all labeled safeguards until container is cleaned, reconditioned, or destroyed.

Disposal of Plastic 1-Way Containers, Bottles and Drums: **DO NOT** reuse container. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Disposal of Refillable Drums, Minibulk and Bulk Containers: **DO NOT** reuse container. If not returned to the point of purchase or to an alternate location designated by the registrant at the time of product purchase, triple rinse or pressure rinse the empty container and offer for reconditioning or recycling if available, or dispose of in a manner approved by state and local authorities.

Refilling of Refillable Drums, Minibulk and Bulk Containers: When the container containing this product is empty, replace the cap and seal all openings that have been opened during use. **DO NOT** rinse empty container. Return the container to the point of purchase, or to an alternate refilling location designated by the registrant at the time of product purchase.

Instructions for Users and Refillers: The container must only be refilled with this pesticide product. **DO NOT** reuse the container for any other purpose. **DO NOT** transport if this container is damaged or leaking. If the container is damaged, leaking, or obsolete, or to obtain information about recycling refillable containers, contact FarmSaver.com, LLC at 800-979-8994 OR your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Cleaning is not necessary prior to refilling with the same product. Clean container before final disposal. Disposal of this container must be in compliance with state and local regulations.

Instructions For Refillers: Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transporting. If the container can not be refilled, triple rinse or pressure rinse the empty container and offer for recycling if available.

FarmSaver.com will not be responsible for losses or damages resulting from use of this product in any manner not specifically recommended by FarmSaver.com. User assumes all risks associated with such nonrecommended use.

APPLICATION INSTRUCTIONS

Chlorothalonil 720 SFT, a flowable product containing chlorothalonil, is recommended for use as a spray for the control of many important plant diseases.

Chlorothalonil 720 SFT is effective for use in programs that attempt to minimize disease resistance to fungicides. Chlorothalonil 720 SFT has a multi-site mode of action and may be used to delay or prevent the development of resistance to single-site fungicides. Consult with your Federal or State Cooperative Extension Service representatives for guidance on the proper use of Chlorothalonil 720 SFT in programs that seek to minimize the occurrence of disease resistance to other fungicides.

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GENERAL PRECAUTIONS

Chlorothalonil 720 SFT can be used effectively in dilute or concentrate sprays. Thorough, uniform coverage is essential for disease control.

DO NOT combine Chlorothalonil 720 SFT in a spray tank with pesticides, surfactants, or fertilizers, unless your prior use has shown the combination to be physically compatible, effective, and noninjurious under your conditions of use. **DO NOT** combine Chlorothalonil 720 SFT with DiPel 4L, FolK®, Triton AG-9B, Triton B-1956, or Latron B-1956 as phytotoxicity may result from the combination when applied to crops listed on this label.

Note: Prior to pouring, slowly invert container several times to assure uniform mixture.

The required amount of Chlorothalonil 720 SFT should be added slowly into the spray tank during filling. With concentrate sprays, premix the required amount of Chlorothalonil 720 SFT in a clean container and add to the spray tank as it is being filled. Keep agitator running when filling spray tank and during spray operations.

Dosage rates on this label indicate pints of Chlorothalonil 720 SFT per acre, unless specified otherwise. Under conditions favoring disease development, the high rate specified and shortest application interval should be used.

APPLICATION PRECAUTIONS AND REQUIREMENTS

This product must not be applied within 150 feet for aerial and air-blast applications, or 25 feet for ground applications of marine/estuarine water bodies unless there is an untreated buffer area of that width between the area to be treated and the water body.

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 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 to agricultural field crops. These requirements **DO NOT** apply to forestry applications, public health uses or to applications using dry formulations.

1. The distance of the outermost nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
2. Excluding helicopters, nozzles must always point backward parallel with the airstream and never be pointed downward 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 **Aerial Drift Reduction Advisory Information**.

AERIAL DRIFT REDUCTION ADVISORY INFORMATION

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 conditions (see Wind, Temperature).

CONTROLLING DROPLET SIZE - General Techniques

- **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.

CONTROLLING DROPLET SIZE - Aircraft

- **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 potential.

BOOM HEIGHT: Setting the boom at the lowest labeled height (if specified) which provides uniform coverage reduces the exposure of droplets to evaporation and wind. For ground equipment, the boom should remain level with the crop and have minimal bounce.

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.

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 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.

SHIELDED SPRAYERS: Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

AIR ASSISTED (AIR BLAST) FIELD CROP SPRAYERS: Air assisted field crop sprayers carry droplets to the target via a downward directed air stream. Some may reduce the potential for drift, but if a sprayer is unsuitable for the application and/or set up improperly, high drift potential can result. It is the responsibility of the applicator to determine that a sprayer is suitable for the intended application, is configured properly, and that drift is not occurring. **NOTE:** Air assisted field sprayers can affect product performance by affecting spray coverage and canopy penetration.

AIR ASSISTED (AIR BLAST) TREE AND VINE SPRAYERS: Air assisted tree and vine sprayers carry droplets into the canopy of trees and vines via a radially or laterally directed air stream. In addition to the general drift management principles already described, the following specific practices will further reduce the potential for drift:

- Adjust deflectors and aiming devices so that spray is only directed into the canopy.
- Block off upward pointed nozzles when there is no overhanging canopy.
- Use only enough air volume to penetrate the canopy and provide good coverage.
- **DO NOT** allow spray to go beyond the edge of the cultivated area. Spray the outside row only from outside the planting.

CHEMIGATION

Apply this product only through center pivot, motorized lateral move, traveling gun, solid set, and portable (wheel move, slide roll, end tow, or hand moved) irrigation system(s). **DO NOT** apply this product through any other type of irrigation system. Use only on crops specifically designated in the **DIRECTIONS FOR USE**.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service Specialists, equipment manufacturers or other experts.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Specific Instructions for Public Water Systems:

1. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system

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should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
4. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Always inject Chlorothalonil 720 SFT into irrigation water after it discharges from the irrigation pump and after it passes through the check valve. Never inject pesticides on the intake line on the suction side of the pump.
8. Spray mixture in the chemical supply tank must be agitated at all times, otherwise settling and uneven application may occur.
9. **DO NOT** apply when wind speed favors drift beyond the area intended for treatment.

Specific Instructions for Sprinkler Irrigation Systems:

Chlorothalonil 720 SFT may be used through two basic types of sprinkler irrigation systems as outlined in Sections A and B. Determine which type of system is in place, then refer to the appropriate directions provided for each type.

A. Center Pivot, Motorized Lateral Move, and Traveling Gun Irrigation Equipment

For injection of pesticides, these continuously moving systems must use a positive displacement injection pump, of either diaphragm or piston type,

constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock and capable of injection at pressures approximately two to three times those encountered within the irrigation water line. Venturi application units cannot be used on these systems.

Fill chemical supply tank of injection equipment with water. Operate system for one complete revolution or run across the field, measuring time required, amount of water injected, and acreage covered. Thoroughly mix recommended amount of Chlorothalonil 720 SFT for acreage to be covered into same amount of water used during calibration and inject into system continuously for one revolution or run. Mixture in the chemical supply tank must be continuously agitated during the injection run. Shut off injection equipment after one revolution or run, but continue to operate irrigation system until Chlorothalonil 720 SFT has been cleared from last sprinkler head.

B. Solid Set and Portable (Wheel Move, Side Roll, End Tow, or Hand Move) Irrigation Equipment

With stationary systems, an effectively designed in-line venturi applicator unit is preferred which is constructed of materials that are compatible with pesticides, however, a positive-displacement pump can also be used.

Determine acreage covered by sprinkler. Fill tank of injection equipment with water and adjust flow to use contents over a 30 to 45 minute period. Mix desired amount of Chlorothalonil 720 SFT for acreage to be covered with water so that the total mixture of Chlorothalonil 720 SFT plus water in the injection tank is equal to the quantity of water used during calibration, and operate entire system at normal pressures recommended by the manufacturer of injection equipment used for amount of time established during calibration. No agitation should be required. Chlorothalonil 720 SFT can be injected at the beginning or end of the irrigation cycle or as a separate application. Stop injection equipment after treatment is completed and continue to operate irrigation system until Chlorothalonil 720 SFT has been cleared from last sprinkler head.

RESTRICTIONS ON USE OF TREATED VEGETATION

- DO NOT** allow grazing in treated areas or feed treated plant parts to livestock.
- DO NOT** feed hay or threshings from treated fields.
- DO NOT** feed vines or processing by-products from treated areas to livestock.

GRASSES: GOLF COURSE FAIRWAYS

For low disease pressure, follow the retreatment intervals and the application rates provided below.

For an extreme disease condition, a single maximum application of 15 pints per acre with a minimum retreatment interval of 7 days can be made each year. After making the 15 pint per acre application, the low disease regime must be followed for the remainder of the year.

For Chlorothalonil 720 SFT, no more than 34.6 pints per acre may be applied per year on fairways.

For reentry into treated areas, refer to the Non-Agricultural Use Requirements box.

Diseases Controlled	Low Disease Pressure Treatment Regime		Extreme Disease Condition		Maximum Application Rate Per Year for Fairways (Pints/acre)
	Retreatment Interval (Days)	Application Rate (Pints/Acre)	Maximum Single Application Allowed In a Year (Pints/Acre)	Minimum Retreatment Interval for the Maximum Single Application (Days)	
Dollar spot	7-10 14-21	2.75 ³ -5.5	15	7	34.6
Leaf Spot, Melting Out, Brown Blight	7-10 14-21	5.5 5.5-9.7			
Brown Patch	7-14	5.5-9.7			
Gray Leaf Spot	7-10	5.5-9.7			
Red Thread	7-10	5.5-9.7			
Anthracoese	7-14	8.33-9.7			

³Low rate is not effective on intensively mowed turfgrasses such as golf course tees and greens.

Diseases are caused by some of the following fungi:

Dollar Spot: *Sclerotinia homöocarpa*, *Lanzia* or *Moellerodiscus* spp.

Leaf Spot, Melting Out and Brown Blight: *Drechslera* spp., *Bipolaris* spp., *Curvularia* spp.

Brown Patch: *Rhizoctonia* spp.

Anthracoese: *Colletotrichum*.

GRASSES: GOLF COURSE TEES, GREENS, AND ORNAMENTAL TURF USES

For low disease pressure, follow the retreatment intervals and the application rate provided below. For an extreme disease condition, a single maximum application of 15 pints per acre with a minimum retreatment interval of 7 days can be made. For Chlorothalonil 720 SFT, maximum yearly application limits exist for fairways, greens and other non-residential ornamental turf, such as municipal parks. For reentry after treatment, follow requirements outlined in the Non-Agricultural Use Requirements box.

Diseases Controlled	Retreatment Interval (Days)	Application Rate (fl. oz./1000 sq. ft.)		Maximum Application Rate Per Year for Ornamental Turf, Tees and Greens (fl. oz./1000 sq. ft.)
		Low Disease Pressure Regime	High Disease Pressure Regime Single Maximum Application (fl. oz.) and Retreatment Interval (Days)	
Dollar spot	7-14	2.12-3.5	5.5 (14)	12.7 fl. oz./1000 sq. ft. (ornamental turf)
Brown Patch	7-14	2.12-3.5	5.5 (14)	
Leaf Spot, Melting Out	7-10	2.12-3.5	5.5 (14)	
Gray Leaf Spot	7-10	2.12-3.5	5.5 (14)	
Red Thread	7-10	2.12-3.5	5.5 (14)	25.4 fl. oz./1000 sq. ft. (tees)
Anthrachnose	7-14	2.12-3.5	5.5 (14)	
Copper Spot	7-10	2.12-3.5	5.5 (14)	
Stem Rust (Bluegrass)	7-14	2.12-3.5	5.5 (14)	35.7 fl. oz./1000 sq. ft. (greens)
DICHONDRA: Leaf Spot (CALIFORNIA ONLY)	7-14	2.12-3.5	5.5 (14)	

Diseases are caused by some of the following fungi:

Dollar Spot: *Sclerotinia homeocarpa*, *Lanzia* or *Moellerodiscus* spp.

Brown Patch: *Rhizoctonia* spp.

Leaf Spot, Melting Out and Brown Blight: *Drechslera* spp., *Bipolaris* spp., *Curvularia* spp.

Gray Leaf Spot: *Pyricularia* spp.

Red Thread: *Laetisaria fuciformis*.

Anthrachnose: *Colletotrichum* spp.

Copper Spot: *Gloeocercospora* spp.

Stem Rust: *Puccinia* spp.

Dichondra Leaf Spot: *Alternaria* spp.

Gray snow mold caused by *Typhula* spp.: Apply in sufficient water to obtain adequate coverage (2 to 10 gallons per 1000 square feet). Apply a single application of 5 1/2 fluid ounces of Chlorothalonil 720 SFT per 1000 square feet of turf area. Subsequent applications of 3 1/2 fluid ounces per 1000 square feet must be made at 7 day intervals and before snow cover in autumn. If snow cover is intermittent or lacking during the winter, reapply at 3 1/2 fluid ounces per 1000 square feet at monthly intervals until gray snow mold conditions no longer prevail. In areas where pink snow mold (*Gerlachia* or *Fusarium* patch) is likely to occur, apply an initial application of Chlorothalonil 720 SFT at 5 1/2 fluid ounces in combination with products containing Iprodione at 2 ounces active ingredient per 1000 square feet of turf area; subsequent applications of 3 1/2 fluid ounces per 1000 square feet must be made at 7 day retreatment intervals. Read and observe all label directions for products containing this active ingredient. A maximum seasonal limit of 12.7 ounces per 1000 square feet may be applied to ornamental turf, no more than 25.4 ounces per 1000 square feet may be applied to tees, and a maximum seasonal amount of 35.7 ounces per 1000 square feet of Chlorothalonil 720 SFT may be applied to greens.

Fusarium (*Gerlachia*) Patch: For control of *Fusarium* patch only in areas where snow cover is intermittent or lacking during the winter, apply 5 1/2 fluid ounces of Chlorothalonil 720 SFT per 1000 square feet. Begin applications in autumn and reapply at 3 1/2 fluid ounces per 1000 square feet at 21 to 28 day intervals until conditions favorable for *Fusarium* patch no longer prevail. A maximum seasonal limit of 12.7 ounces per 1000 square feet may be applied to ornamental turf, no more than 25.4 ounces per 1000 square feet may be applied to tees, and a maximum seasonal amount of 35.7 ounces per 1000 square feet of Chlorothalonil 720 SFT may be applied to greens.

Algae: For prevention of algae on turfgrasses, apply Chlorothalonil 720 SFT at the rate of 2 1/8 to 3 1/2 fluid ounces per 1000 square feet on a 7 to 14 day re-treatment interval. For severe algae control, a single application of 5 1/2 fluid ounces per 1000 square feet may be made, followed by applications of 3 1/2 fluid ounces with a 7 day retreatment interval. When algae is well-established, every attempt should be made to dry out the afflicted area. Once dry, spiking or verticutting should be done to enhance turfgrass recovery in conjunction with Chlorothalonil 720 SFT applications. Several applications may be necessary for turfgrass recovery. Only a preventive spray program with Chlorothalonil 720 SFT will prevent a recurrence of the algae when

environmental conditions are favorable for algal growth. A maximum seasonal limit of 12.7 ounces per 1000 square feet may be applied to ornamental turf, no more than 25.4 ounces per 1000 square feet may be applied to tees, and a maximum seasonal amount of 35.7 ounces per 1000 square feet of Chlorothalonil 720 SFT may be applied to greens.

ORNAMENTAL PLANTS

Chlorothalonil 720 SFT may be used on ornamental plants grown in the field, nurseries, greenhouses and for spot-treatment of ornamentals plants growing in landscapes. Due to the large number of species and varieties of ornamental and nursery plants, and the widely varying growing conditions, it is impossible to test every one for sensitivity to Chlorothalonil 720 SFT. Prior to commercial use, apply the recommended rates to a small area of plants in question, i.e. bedding plants, foliage, etc., and observe for 7 to 10 days prior to treatment of a commercial crop.

Field-grown ornamentals:

No more than 48 pints per acre of Chlorothalonil 720 SFT may be applied to field-grown ornamentals per year.

For aerial application to field-planted ornamentals, a minimum rate of 10 gallons of spray per acre should be used during application. Chlorothalonil 720 SFT should be applied to plants when both foliage and flowers are dry or nearly dry.

For field-grown roses, apply 1.4 pints of Chlorothalonil 720 SFT per acre for a single application.

For field-planted pachysandra, apply 4.1 pints per acre of Chlorothalonil 720 SFT for a single application.

Ornamentals grown in nurseries, greenhouses:

DO NOT use mistblowers or high pressure spray equipment when making applications of Chlorothalonil 720 SFT in greenhouses.

Apply Chlorothalonil 720 SFT at a rate of 1.37 pints per 100 gallons of water unless other directions are given in tables below.

Apply in a spray until foliage run-off occurs when conditions are favorable for disease development. Repeat applications at 7 to 14 day intervals until conditions are no longer favorable. During periods when conditions favor severe disease incidence, generally cloudy or wet weather, apply

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Chlorothalonil 720 SFT at 7 day intervals. Chlorothalonil 720 SFT should be applied to plants when both foliage and flowers are dry or nearly dry.

DO NOT combine Chlorothalonil 720 SFT in the spray tank with pesticides, surfactants or fertilizers unless prior use has shown the combination to be physically compatible, effective and noninjurious under your conditions of use.

Spot-treatment of ornamental plants growing in landscapes:

Apply Chlorothalonil 720 SFT at a rate of 1.3 teaspoons per 2 gallon of water. Apply in a spray until foliage run-off occurs when conditions are favorable for disease development. Repeat applications at 7 to 14 day intervals until conditions are no longer favorable. During periods when conditions favor severe disease incidence, generally cloudy or wet weather, apply Chlorothalonil 720 SFT at 7 day intervals. Chlorothalonil 720 SFT should be applied to plants when both foliage and flowers are dry or nearly dry.

Use of Chlorothalonil 720 SFT is recommended for control of fungal diseases referred to by numbers in parentheses following each ornamental. Ornamentals listed on this label have been tested and found to tolerate applications of Chlorothalonil 720 SFT at the recommended rates. The user should test for possible phytotoxic responses, using recommended rates on ornamental plants on a small area prior to commercial treatments. Applications made during bloom may damage flowers and/or fruits.

NOTE: Fruits and other treated foliage must not be eaten or fed to livestock. Diseases controlled by Chlorothalonil 720 SFT:

1. Leaf Spots/Foliar Blights:

- Actinopelte Leaf Spot
- Alternaria Leaf Spot/Leaf Blight
- Anthracoese Leaf Blotch/Spot
- Anthracoese (Discula) Blight
- Ascochyta Blight
- Bipolaris (Helminthosporium) Leaf Spot
- Black Spot (on roses)
- Botrytis Leaf Spot/Leaf Blight
- Cephalosporium Leaf Spot
- Cercospora Leaf Spot
- Cercosporidium Leaf Spot
- Coryneum Blight (Shothole)
- Corynespora Leaf Spot
- Curvularia Leaf Spot
- Cylindrosporium Leaf Spot
- Dactylaria Leaf Spot
- Didymellina Leaf Spot
- Dreschlera Leaf Spot
- Fabraea (Entomosporium) Leaf Spot
- Fusarium Leaf Spot
- Gloeosporium Black Leaf Spot
- Inkspot (Dreschlera)
- Marssonina Leaf Spot
- Monilinia Blossom Blight/Twig Blight
- Mycosphaerella Ray Blight
- Myrothecium Leaf Spot/Brown Rot
- Nematostoma Leaf Blight
- Phyllosticta Leaf Spot
- Rhizoctonia Web Blight
- Ramularia Leaf Spot
- Septoria Leaf Spot
- Sphaeropsis Leaf Spot
- Stagonospora Leaf Scorch
- Tan Leaf Spot (Curvularia)
- Volutella Leaf Blight

2. Flower Spots/Blights:

- Botrytis Flower Spot/Flower Blight
- Curvularia Flower Spot
- Monilinia Blossom Blight
- Ovulinia Flower Blight
- Rhizopus Blossom Blight
- Sclerotinia Flower Blight

3. Cylindrocladium Stem Canker

4. Phytophthora Leaf Blight/Dieback

5. Powdery Mildews:

- Erysiphe Cichoracearum
- Microsphaera spp.

6. Rusts:

- Gymnosporangium spp.
- Puccinia spp.
- Pucciniastrum Hydrangeae

7. Taphrina Blister

8. Scab:

- Venturia inaequalis

Ornamentals recommended for treatment with Chlorothalonil 720 SFT:
Avoid applications during bloom periods for those plants where flower injury is unacceptable.

For poinsettia, discontinue applications prior to bract formation; phytotoxicity is possible on bracts. For roses, use 1.1 pints per 100 gallons of water.

Plant	Disease(s)	Comments/Instructions:
Aglaonema	1	
Andromeda (Pieris)	4	
Arabian Violet	2	
Areca Palm	1	
Artemesia	1	
Ash, Fraxinus	1	
Aspen	1	
Azalea	1,2,4	
Begonia	1	
Boston Fern	1	
Buckeye, Horsechestnut	1	
Camellia	2	
Carnation	1,2	
Cherry-Laurel	1	
Chrysanthemum	1,2	
Crabapple	1,6,8	
Crocus	1	
Daffodil	1	
Daisy	1	
Dogwood	1	
Dumbcane, Dieffenbachia	1	
Dracaena	1	
Eucalyptus	3	
Euonymus	1	
Fatsia (Aralia)	1	
Ficus	1	
Firethorn, Pyracantha	1	
Florida Ruffe Fern	1	
Flowering Almond	1,2	
Flowering Cherry	1,2	
Flowering Peach	1,2	
Flowering Plum	1,2	
Flowering Quince	1,2	
Geranium	1,6	
Gladolus	1,2	
Hawthorn	1,6	
Holly	1	
Hollyhock	6	
Hydrangea (Foliage Only)	1,6	
Iris	1,2	
Leatherleaf Fern	1	
Lilac	6	
Lily	1	
Lipstick Plant	1	
Magnolia	1	
Maple	1	
Marigold	1	
Ming Aralia	1	
Mountain Laurel	1	
Narcissus	1	
Oak (Red Group Only)	1,7	
Oregon Grape (Mahonia)	6	
Oyster Plant (Rhoeo)	1	
Pachysandra	1	Use 3 pints of Chlorothalonil 720 SFT per 100 gallons of water for greenhouse-grown plants.
Pansy	1	
Parlor Palm (Chamaedorea)	1	
Peperomia	1	
Petunia	1,4	
Philodendron	1,4	
Phlox	1	
Photinia	1	
Poinsettia	1	Discontinue applications prior to bract formation; phytotoxicity is possible.
Poplar	1	

Chlorothalonil 720 SFT

Specimen Label

Prayer Plant (Maranta)	1	
Privet, Ligustrum	1	
Rhododendron	1,2,4	
Rose	1	Use 1.1 pints per 100 gallons of water for greenhouse grown plants.
Sand Cherry	1,2	
Sequoia	1	
Spiraea	1	
Statice	1	
Sycamore, Planetree	1	
Syngonium	1	
Tulip	1	
Viburnum	5	
Walnut, Juglans	1	
Zebra Plant (Aphelandra)	1	
Zinnia	1,5	

The following ornamental plant species which have been tested with Chlorothalonil 720 SFT at recommended rates did not exhibit phytotoxicity:

Botanical name:	Common name:
<i>Aechmea fasciata</i>	Aechmea
<i>Araucaria heterophylla</i>	Norfolk Island Pine
<i>Asplenium nidus</i>	Birdnest Fern
<i>Bougainvillea</i> spp.	Bougainvillea
<i>Caladium</i> spp.	Caladium
<i>Calathea makoyana</i>	Peacock Plant
<i>Callistephus chinensis</i>	Aster

<i>Carissa grandiflora</i>	Natal Plum
<i>Clerodendron thomsonae</i>	Bleeding Heart
<i>Codiaeum</i> spp.	Croton
<i>Cordyline terminalis</i>	Ti Plant
<i>Crassula argentea</i>	Jade Plant
<i>Cyrtomium falcatum</i>	Holly Leaf Fern
<i>Dionaea muscipula</i>	Venus Fly Trap
<i>Dizygotheca elegantissima</i>	False Aralia
<i>Epipremnum aureum</i>	Golden Pothos, Scindapsus
<i>Episcia cupreata</i>	Flame Violet
<i>Fittonia</i> spp.	Silver-Nerve Plant
<i>Gerbera jamesonii</i>	Gerber Daisy
<i>Gynura sarmantosa</i>	Purple Passion Vine
<i>Gypsophila paniculata</i>	Baby's Breath
<i>Hoya</i> spp.	Wax Plant
<i>Ilex cornuta</i>	Chinese Holly
<i>Ilex crenata</i>	Japanese Holly
<i>Impatiens</i> spp.	Impatiens
<i>Pilea cadlerei</i>	Aluminum Plant
<i>Platynerium</i> spp.	Staghorn Fern
<i>Sansevieria trifasciata</i> "Hahnii"	Birdnest Sansevieria
<i>Tolmiea menziesii</i>	Piggy-Back Plant
<i>Yucca elephantipes</i>	Spineless Yucca
<i>Zygocactus truncatus</i>	Christmas Cactus

NOTE: DO NOT apply Chlorothalonil 720 SFT to either green or variegated Pittosporium or to Schefflera, as multiple applications have been demonstrated to cause phytotoxic responses.

GRASS: SODFARMS

Use of this product on home lawns is prohibited.

Apply Chlorothalonil 720 SFT in 30 to 40 gallons of water per acre. Begin applications when conditions favor disease development and repeat applications as long as these conditions persist using the rates recommended in the following table.

Under severe disease conditions, a single application of 15 pints per acre may be made with a 7 day retreatment interval. Subsequent applications must follow the rates and retreatment intervals outlined in the following table for the remainder of the year.

DO NOT mow or water after treatment until spray deposited on grass is thoroughly dry. Chlorothalonil 720 SFT should always be used in conjunction with good turf management practices.

Sodfarm turf treated with chlorothalonil prior to harvest must be mechanically cut, rolled, and harvested. Follow all provisions outlined in the **Agricultural Use Requirements** box.

Diseases Controlled	Low Disease Pressure Treatment Regime		Extreme Disease Condition		Application Limit Per Year for Sodfarms (Pints/Acre)
	Retreatment Interval (Days)	Application Rate (Pints/Acre)	Maximum Single Application Allowed in a Year (Pints/Acre)	Minimum Retreatment Interval for the Maximum Single Application (Days)	
Dollar spot	7-10	2.75 ^a -5.5	15	7	34.6
	14-21	5.5-9.66			
Leaf Spot, Melting Out, Brown Blight	7-10	5.5			
Brown Blight	14-21	5.5-9.66			
Brown Patch	7-14	5.5-9.66			
Gray Leaf Spot	7-10	5.5-9.66			
Red Thread	7-10	5.5-9.66			
Anthracnose	7-14	8.12-9.66			

^aLow rate is not effective on intensively mowed grasses.

Diseases are caused by some of the following fungi:

Dollar Spot: *Sclerotinia homeocarpa*, *Lanzia* or *Moellerodiscus* spp.

Leaf Spot, Melting Out and Brown Blight: *Drechslera* spp., *Blipolaris* spp., *Curvularia* spp.

Brown Patch: *Rhizoctonia* spp.

Anthracnose: *Colletotrichum*.

LIMITED WARRANTY, TERMS OF SALE, AND LIMITATION OF LIABILITY

Upon purchase or use of this product, purchaser and user agree to the following terms:

Warranty: FarmSaver.com, LLC (the "Company") warrants that this product conforms to the chemical description on the label in all material respects and is reasonably fit for the purpose referred to in the directions for use, subject to the exceptions noted below, which are beyond the Company's control. The Company makes no other representation or warranty, express or implied, concerning the product, including no implied warranty of merchantability or fitness for a particular purpose; no such warranty shall be implied by law, and no agent or representative is authorized to make any such warranty on the Company's behalf.

Terms of Sale: The Company's directions for use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with use of this product. Crop Injury, Ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, and the manner of use or application (including failure to adhere to label directions), all of which are beyond the Company's control. All such risks are assumed by the user.

Limitation of Liability: The exclusive remedy against the Company for any cause of action relating to the handling or use of this product is a claim for damages, and in no event shall damages or any other recovery of any kind exceed the price of the product which caused the alleged loss, damage, injury or other claim. Under no circumstances shall the Company be liable for any special, indirect, incidental or consequential damages of any kind, including loss of profits or income, and any such claims are hereby waived. Some states **DO NOT** allow the exclusion or limitation of incidental or consequential damages.

The Company and the seller offer this product, and the purchaser and user accept this product, subject to the foregoing warranty, terms of sale and limitation of liability, which may be varied or modified only by an agreement in writing signed on behalf of the Company by an authorized representative.

Benlate is a registered trademark of DuPont.

Copper-Count N is a registered trademark of Mineral Research and Development Corporation.

DiPel is a registered trademark of Abbott Laboratories.

Foil is a registered trademark of Ecogen Inc.

Latron is a trademark of Rohm and Haas Company.

Quall-Pro is a trademark of FarmSaver.com LLC.

Triton is a registered trademark of Union Carbide Corp.

Questions? Call 800-979-8994.

FarmSaver.com LLC
P.O. Box 21365
Seattle, WA 98111

SKU 720094020100
EPA Notif. 011405 (BulkStor&Refill)

MATERIAL SAFETY DATA SHEET

Quali-Pro® Chlorothalonil 720 SFT

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1. CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Product name: **Quali-Pro® Chlorothalonil 720 SFT**
Chemical name of active ingredient(s): Chlorothalonil(54.0%); tetrachloroisophthalonitrile
Manufactured for: FarmSaver.com, LLC.
4515 Falls of Neuse Road, Suite 300
Raleigh, NC 27609
Phone: 1-800-979-8994

For fire, spill, and/or leak emergencies, contact Chemtrec: Phone: 1-800-424-9300
Outside US: 1-703-527-3887

For medical emergencies and health and safety inquiries, contact Prosar: Phone: 1-800-308-5391

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMMON NAME	CAS NO.	%	OSHA PEL	ACGIH TLV	OTHER	NTP/IARC/OSHA (Carcinogen)
Chlorothalonil	1897-45-6	54.0	NE	NE	0.1 mg/m ³	IARC: 2B*
Inert Ingredients		46.0				

NE=not established

*IARC Group 2B - The agent is possibly carcinogenic to humans.

3. HAZARDS IDENTIFICATION

PHYSICAL PROPERTIES

Appearance: Off-white liquid.

Odor: Slight

EMERGENCY OVERVIEW: Warning. Causes eye irritation. May cause skin irritation. May be a skin sensitizer. Do not get into eyes. Avoid prolonged contact with skin. Avoid breathing spray mist. Do not take internally.

PRIMARY ROUTES OF ENTRY: Inhalation, ingestion, skin, and eyes

SYMPTOMS OF EXPOSURE:

Inhalation: May cause irritation to the respiratory tract, but this is rarely observed.

Eye contact: May cause mild to severe irritation, depending on degree of exposure.

Skin contact: Not readily absorbed through the skin. May cause skin irritation. May be potential skin sensitizer.

Ingestion: May cause irritation to the digestive tract, following ingestion of large amounts.

NOTE TO USER: This product may produce temporary allergic side effects characterized by redness of the eyes, mild bronchial irritation and redness or rash on exposed skin areas. Persons having allergic reactions should contact a physician.

4. FIRST AID MEASURES

FIRST AID

- | | |
|--------------------|--|
| IF IN EYES: | <ul style="list-style-type: none">• 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. |
|--------------------|--|

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-308-5391 for emergency medical treatment information.

NOTE TO PHYSICIAN: Persons having temporary irritation may respond to treatment with antihistamines or steroid creams and/or systemic steroids.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT: Nonflammable

MATERIAL SAFETY DATA SHEET

Quali-Pro® Chlorothalonil 720 SFT

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FLAMMABLE LIMITS IN AIR:

LEL: 0.8%; UEL: 7%; Noncombustible

FIRE FIGHTING PROCEDURES: If product is involved in a fire, wear positive-pressure, self-contained breathing apparatus and full protective clothing.

SUITABLE EXTINGUISHING MEDIA: Dry chemical, water spray, foam, or carbon dioxide.

HAZARDOUS DECOMPOSITION PRODUCTS: May decompose under fire conditions emitting gases and vapors (e.g. hydrogen chloride), which may be toxic and irritating to the respiratory tract.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS/LEAKS: Contain spill. Remove as much product as possible by absorbing with inert material. Scrub area with a hard water detergent. Remove any contaminated soil. Place in closed, labeled containers and store in a safe place until disposed. Do not contaminate water while cleaning equipment or disposing of wastes. This product is toxic to fish. Keep out of lakes, streams or ponds. Use proper protective equipment to minimize exposure (see Section 8). Take all necessary actions to prevent and to remedy the adverse effects of the spill. Ensure that the disposal is in compliance with federal requirements and state or local regulations.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING: Read label carefully before use. Avoid contact with eyes, skin or clothing. In case of skin contact, carefully remove contaminated clothing and wash affected area with soap and water. Do not contaminate water, food, or feed by storage or disposal or cleaning of equipment. Avoid contact with skin or eyes. Wash thoroughly with soap and water after handling. Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored. Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.

PRECAUTIONS TO BE TAKEN IN STORAGE: Store in a cool place. Protect from excessive heat. Store product in original container only, away from water, food or feed. Keep container closed to prevent spills and contamination. Carefully open containers. After partial use, replace lid and close tightly. Do not put concentrate or diluted product into food or drink containers.

STORAGE TEMPERATURE (MIN/MAX): Normal ambient temperatures. Avoid excessive heat.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT. FOR COMMERCIAL APPLICATION AND ON-FARM APPLICATIONS, CONSULT THE PRODUCT LABEL.

EYE PROTECTION: Use chemical splash goggles or face shield.

SKIN PROTECTION: Wear long sleeved shirt, long pants and shoes plus socks.

HAND PROTECTION: Use chemical resistant gloves (e.g. nitrile, neoprene).

RESPIRATORY PROTECTION: Atmospheric levels should be maintained below the exposure guidelines. For most conditions, no respiratory protection should be needed; however, if handling without sufficient ventilation, use NIOSH approved air-purifying respirator with any N, P or R95 class filter and an organic vapor cartridge.

ADDITIONAL PROTECTIVE MEASURES: 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.

USER SAFETY RECOMMENDATIONS:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove PPE immediately after handling this product.
- Wash outside of gloves before removing.

MATERIAL SAFETY DATA SHEET

Quali-Pro® Chlorothalonil 720 SFT

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- As soon as possible, wash thoroughly and change into clean clothing.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

EXPOSURE GUIDELINES: Refer to Section 2.

ENGINEERING CONTROLS: Refer to product label.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL PROPERTIES

Appearance: Off-white liquid.

Odor: Slight

Boiling Point: 212° F (100° C)

pH: 6-8

Solubility (H₂O): Dispersible in water

Vapor Pressure (mmHg): 5.72×10^{-7} torr @ 25°C

Specific Gravity: 1.33

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions.

HAZARDOUS POLYMERIZATION: Not applicable.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen Chloride.

CONDITIONS AND MATERIALS TO AVOID: Highly alkaline conditions. Avoid excessive heat.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY/IRRITATION STUDIES

Acute Oral LD₅₀ (Rat): No data available.

Acute Dermal LD₅₀ (Rabbit): No data available.

Acute Inhalation LC₅₀ (Rat): No data available.

Eye Irritation (Rabbit): Mild to severe eye irritant.

Dermal Irritation (Rabbit): Skin irritant.

Dermal Sensitization (Guinea Pig): Potential skin sensitizer.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: This product is toxic to aquatic invertebrates and wildlife. 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. Do not contaminate water when disposing of equipment wash water or rinsate.

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL: Do not contaminate water, food or feed by disposal. Improper disposal of excess pesticide, pesticide spray or rinsate is a violation of Federal Law. Wastes resulting from the use of this product that cannot be used according to the label instructions or chemically reprocessed may be disposed of at a landfill or waste disposal facility approved for pesticide disposal or in accordance with all applicable regulations. For further guidance, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Do not reuse container. Empty containers retain vapor of product and residues. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

14. TRANSPORT INFORMATION

DOT CLASSIFICATION:

Not regulated

MATERIAL SAFETY DATA SHEET

Quali-Pro® Chlorothalonil 720 SFT

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B/L Freight Classification: Item: 102120 [Insecticides, Fungicides, Insect or Animal Repellant] Class 60

INTERNATIONAL TRANSPORTATION

IMO (vessel): Environmentally hazardous substances, liquid, N.O.S. (chlorothalonil 54%), 9, UN3082, PGIII, Marine pollutant

IATA (air): Not regulated

15. REGULATORY INFORMATION

SARA TITLE III CLASSIFICATION:

Section 302: Not applicable.
Section 311/312: Acute health hazard (immediate)
Delayed health hazard (chronic)
Section 313: Chlorothalonil (54%) CAS# 1897-45-6

CA PROPOSITION 65: This product contains a chemical (chlorothalonil) that is known to the State of California to cause cancer.

CERCLA RQ: Not applicable

RCRA CLASSIFICATION: 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.

TSCA STATUS: The ingredients of this product are listed on the TSCA inventory or are exempt.

16. OTHER INFORMATION

HAZARD RATINGS	NFPA	
HEALTH:	2	0 MINIMAL
FLAMMABILITY:	1	1 SLIGHT
REACTIVITY:	0	2 MODERATE
		3 HIGH
		4 SEVERE

MSDS DATE: 10-31-07

The information contained herein is given in good faith and is believed to be correct, but no warrant, express or implied, is made. Consult FarmSaver.com, LLC. for further information.



Chlorothalonil 500 ZN

Flowable Fungicide

Specimen Label

ACTIVE INGREDIENT:	BY WEIGHT
Chlorothalonil (tetrachloroisophthalonitrile).....	38.5%
INERT INGREDIENTS:.....	61.5%
TOTAL.....	100.0%

Contains 4.17 Pounds of Active Ingredient per Gallon (500 grams per liter).

EPA REG. NO. 72167-27-73220 EPA EST. NO. 37429-GA-01

KEEP OUT OF REACH OF CHILDREN

WARNING – AVISO

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.)

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.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For medical emergencies involving this product, call 1-800-308-5391.	
NOTE TO PHYSICIAN	
Persons having temporary irritation may respond to treatment with antihistamines or steroid creams and/or systemic steroids.	

See inside booklet for complete Precautionary Statements, Directions for Use, and Conditions of Sale and Warranty.

Manufactured for FarmSaver.com, LLC • P.O. Box 21365 • Seattle, WA 98111

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING-AVISO

Causes eye irritation. May cause skin irritation. May be a potential skin sensitizer. DO NOT get into eyes. Avoid prolonged contact with skin. Avoid breathing spray mist. DO NOT take internally.

Note to user: This product may produce temporary allergic side effects characterized by redness of the eyes, mild bronchial irritation and redness or rash on exposed skin areas. Persons having allergic reactions should contact a physician.

PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical resistance category selection chart.

For WPS or non-WPS applications made in enclosed areas, such as greenhouses, applicators and other handlers must wear a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH-approved respirator with any N, P, R, or HE filter.

WPS Uses (commercial production on farms, forests, nurseries, sodfarms, and in greenhouses):

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical resistant gloves, such as nitrile rubber, natural rubber, or butyl rubber
- Shoes plus socks
- Protective eyewear

Non-WPS Uses (such as applications to non-residential turf, golf courses, public parks, etc.):

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical resistant gloves, such as nitrile rubber, natural rubber, or butyl rubber
- Shoes plus socks
- Protective eyewear

Follow the 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 enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR part 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 PPE immediately after handling this product.
- Wash outside of gloves before removing.
- As soon as possible, wash thoroughly and change into clean clothing.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to aquatic invertebrates and wildlife. DO NOT apply directly 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 neighboring areas. DO NOT contaminate water when disposing of equipment washwater or rinsate.

This chemical is known to leach through soil into groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This chemical can contaminate surface water through spray drift. Under some conditions, it may also have a high potential for runoff into surface water for several days to weeks after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow ground water, areas with infield canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlaying tile drainage systems that drain to surface water.

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, other persons or pets, either directly or through drift. Only protected handlers

Chlorothalonil 500 ZN

Specimen Label

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.

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 nitrile rubber, natural rubber, or butyl rubber
- Shoes plus socks
- Protective eyewear

Special Eye Irritation Provisions: This product is a severe eye irritant. Although the restricted entry interval expires after 12 hours, for the next 6.5 days, entry is permitted only when the following safety measures are provided:

1. At least one container designed specifically for flushing eyes must be available in operating condition at the WPS-required decontamination site intended for workers entering the treated area.

2. Workers must be informed, in a manner they can understand:

- That residues in the treated area may be highly irritating to their eyes,
- That they should take precautions, such as refraining from rubbing their eyes, to keep residues out of their eyes,
- That if they do get residues in their eyes, they should immediately flush their eyes using the eyeflush container that is located at the decontamination site or using other readily available clean water, and
- How to operate the eyeflush container.

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 others to enter the treated area until sprays have dried.

STORAGE AND DISPOSAL

DO NOT contaminate water, foodstuffs, feed or seed by storage or disposal.

Pesticide Storage: Store in a cool place. Protect from excessive heat. Store product in original container only away from water, food or feed. Keep container closed to prevent spills and contamination. Carefully open containers. After partial use, replace lid and close tightly. DO NOT put concentrate or diluted product into food or drink containers.

Pesticide Disposal: DO NOT contaminate water, food or feed by disposal. Improper disposal of excess pesticide, pesticide spray or rinsate is a violation of Federal Law. Wastes resulting from the use of this product that cannot be used according to the label instructions or chemically reprocessed may be disposed of on site or at a landfill or waste disposal facility approved for pesticide disposal, or in accordance with all applicable Federal, state, or local regulations. For further guidance, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal: Empty containers retain vapor and product residues. Follow all labeled safeguards until container is cleaned, reconditioned, or destroyed.

Disposal of Plastic 1-Way Containers, Bottles and Drums: DO NOT reuse container. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Disposal of Refillable Drums, Minibulk and Bulk Containers: DO NOT reuse container. If not returned to the point of purchase or to an alternate location designated by the registrant at the time of product purchase, triple rinse or pressure rinse the empty container and offer for reconditioning or recycling if available, or dispose of in a manner approved by state and local authorities.

Refilling of Refillable Drums, Minibulk and Bulk Containers: When the container containing this product is empty, replace the cap and seal all openings that have been opened during use. DO NOT rinse empty container. Return the container to the point of purchase, or to an alternate refilling location designated by the registrant at the time of product purchase.

Instructions for Users and Refillers: The container must only be refilled with this pesticide product. DO NOT reuse the container for any other purpose. DO NOT transport if this container is damaged or leaking. If the container is damaged, leaking, or obsolete, or to obtain information about recycling refillable containers, contact FarmSaver.com, LLC at 800-979-8994 OR your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Cleaning is not necessary prior to refilling with the same product. Clean container before final disposal. Disposal of this container must be in compliance with state and local regulations.

Instructions For Refillers: Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transporting. If the container can not be refilled, triple rinse or pressure rinse the empty container and offer for recycling if available.

FarmSaver.com will not be responsible for losses or damages resulting from use of this product in any manner not specifically recommended by FarmSaver.com. User assumes all risks associated with such nonrecommended use.

APPLICATION INSTRUCTIONS

Quali-Pro Chlorothalonil 500 ZN, a flowable product containing

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chlorothalonil, is recommended for use as a spray for the control of many important plant diseases.

Quali-Pro Chlorothalonil 500 ZN is effective for use in programs that attempt to minimize disease resistance to fungicides. Quali-Pro Chlorothalonil 500 ZN has a multi-site mode of action and may be used to delay or prevent the development of resistance to single-site fungicides. Consult with your Federal or State Cooperative Extension Service representatives for guidance on the proper use of Quali-Pro Chlorothalonil 500 ZN in programs that seek to minimize the occurrence of disease resistance to other fungicides.

GENERAL PRECAUTIONS

Quali-Pro Chlorothalonil 500 ZN can be used effectively in dilute or concentrate sprays. Thorough, uniform coverage is essential for disease control.

DO NOT combine Quali-Pro Chlorothalonil 500 ZN in a spray tank with pesticides, surfactants, or fertilizers, unless your prior use has shown the combination to be physically compatible, effective, and noninjurious under your conditions of use. DO NOT combine Quali-Pro Chlorothalonil 500 ZN with DiPel 4L, Foil®, Triton AG-98, Triton B-1956, or Latron B-1956 as phytotoxicity may result from the combination when applied to crops listed on this label.

Note: Prior to pouring, slowly invert container several times to assure uniform mixture.

The required amount of Quali-Pro Chlorothalonil 500 ZN should be added slowly into the spray tank during filling. With concentrate sprays, premix the required amount of Quali-Pro Chlorothalonil 500 ZN in a clean container and add to the spray tank as it is being filled. Keep agitator running when filling spray tank and during spray operations.

Dosage rates on this label indicate pints of Quali-Pro Chlorothalonil 500 ZN per acre, unless specified otherwise. Under conditions favoring disease development, the high rate specified and shortest application interval should be used.

APPLICATION PRECAUTIONS AND REQUIREMENTS

This product must not be applied within 150 feet, for aerial and air-blast applications, or 25 feet, for ground applications, of marine/estuarine water bodies unless that there is an untreated buffer area of that width between the area to be treated and the water body.

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 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 to agricultural field crops. These requirements DO NOT apply to forestry applications, public health uses or to applications using dry formulations.

1. The distance of the outermost nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
2. Excluding helicopters, nozzles must always point backward parallel with the airstream and never be pointed downward 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 Aerial Drift Reduction Advisory Information.

Aerial Drift Reduction Advisory Information:

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 conditions (see Wind, Temperature).

CONTROLLING DROPLET SIZE - General Techniques

- **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.

CONTROLLING DROPLET SIZE – Aircraft

- **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 potential.

BOOM HEIGHT: Setting the boom at the lowest labeled height (if specified) which provides uniform coverage reduces the exposure of droplets to evaporation and wind. For ground equipment, the boom should remain level with the crop and have minimal bounce.

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.

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 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.

SHIELDED SPRAYERS: Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

AIR ASSISTED (AIR BLAST) FIELD CROP SPRAYERS: Air assisted field crop sprayers carry droplets to the target via a downward directed air stream. Some may reduce the potential for drift, but if a sprayer is unsuitable for the application and/or set up improperly, high drift potential can result. It is the responsibility of the applicator to determine that a

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sprayer is suitable for the intended application, is configured properly, and that drift is not occurring. **NOTE:** Air assisted field sprayers can affect product performance by affecting spray coverage and canopy penetration.

AIR ASSISTED (AIR BLAST) TREE AND VINE SPRAYERS: Air assisted tree and vine sprayers carry droplets into the canopy of trees and vines via a radially or laterally directed air stream. In addition to the general drift management principles already described, the following specific practices will further reduce the potential for drift:

- Adjust deflectors and aiming devices so that spray is only directed into the canopy.
- Block off upward pointed nozzles when there is no overhanging canopy.
- Use only enough air volume to penetrate the canopy and provide good coverage.
- DO NOT allow spray to go beyond the edge of the cultivated area. Spray the outside row only from outside the planting.

RESTRICTIONS

Foliar Applications CHEMIGATION

Apply this product only through center pivot, motorized lateral move, traveling gun, solid set, and portable (wheel move, side roll, end tow, or hand moved) irrigation system(s). DO NOT apply this product through any other type of irrigation system. Use only on crops specifically designated in the "DIRECTIONS FOR USE."

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service Specialists, equipment manufacturers or other experts.

DO NOT connect an irrigation system (including greenhouse system) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Specific Instructions for Public Water Systems:

1. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
4. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water

pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Always inject Quali-Pro Chlorothalonil 500 ZN into irrigation after it discharges from the irrigation pump and after it passes through the check valve. Never inject pesticides on the intake line on the suction side of the pump.
8. Spray mixture in the chemical supply tank must be agitated at all times, otherwise settling and uneven application may occur.
9. DO NOT apply when wind speed favors drift beyond the area intended for treatment.

Specific Instructions for Sprinkler Irrigation Systems:

Quali-Pro Chlorothalonil 500 ZN may be used through 2 basic types of sprinkler irrigation systems as outlined in Sections A and B. Determine which type of system is in place, then refer to the appropriate directions provided for each type.

1. The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. DO NOT apply when wind speed favors drift beyond the area intended for treatment.

A. Center Pivot, Motorized Lateral Move, and Traveling Gun Irrigation Equipment

For injection of pesticides, these continuously moving systems must use a positive displacement injection pump, of either diaphragm or piston type, constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock and capable of injection at pressures approximately 2 to 3 times those encountered within the irrigation water line. Venturi application units cannot be used on these systems.

Fill chemical supply tank of injection equipment with water. Operate system for one complete revolution or run across the field, measuring time required, amount of water injected, and acreage covered. Thoroughly mix recommended amount of Quali-Pro Chlorothalonil 500 ZN for acreage to be covered into same amount of water used during calibration and inject

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into system continuously for 1 revolution or run. Mixture in the chemical supply tank must be continuously agitated during the injection run. Shut off injection equipment after 1 revolution or run, but continue to operate irrigation system until Quali-Pro Chlorothalonil 500 ZN has been cleared from last sprinkler head.

B. Solid Set and Portable (Wheel Move, Side Roll, End Tow, or Hand Move) Irrigation Equipment

With stationary systems, an effectively designed in-line venturi applicator unit is preferred which is constructed of materials that are compatible with pesticides; however, a positive-displacement pump can also be used.

Determine acreage covered by sprinkler. Fill tank of injection equipment with water and adjust flow to use contents over a 30- to 45-minute period. Mix desired amount of Quali-Pro Chlorothalonil 500 ZN for acreage to be covered with water so that the total mixture of Quali-Pro Chlorothalonil 500 ZN plus water in the injection tank is equal to the quantity of water used during calibration, and operate entire system at normal pressures

recommended by the manufacturer of injection equipment used for amount of time established during calibration. No agitation should be required. Quali-Pro Chlorothalonil 500 ZN can be injected at the beginning or end of the irrigation cycle or as a separate application. Stop injection equipment after treatment is completed and continue to operate irrigation system until Quali-Pro Chlorothalonil 500 ZN has been cleared from last sprinkler head.

DO NOT use on greenhouse grown food crops.

Restrictions on use of treated vegetation:

- **DO NOT** allow grazing in treated areas or feed treated plant parts to livestock.
- **DO NOT** feed hay or threshings from treated fields.
- **DO NOT** feed vines or processing by-products from treated areas to livestock.

TREE CROPS APPLICATION INSTRUCTIONS

Apply Quali-Pro Chlorothalonil 500 ZN in sufficient water and with proper calibration to obtain uniform coverage of tree canopy. Application with ground equipment is preferable to aerial application because ground applications generally give better coverage of the tree canopy. If application with ground equipment is not feasible, Quali-Pro Chlorothalonil 500 ZN may be applied with aircraft using at least 20 gallons of spray per acre. When concentrate sprays are used or when treating non-bearing or immature trees, the lower rate of Quali-Pro Chlorothalonil 500 ZN listed may be used. DO NOT allow livestock to graze in treated areas. The following spray volumes are recommended as gallons of spray per acre:

CROP	SPRAY VOLUME (Gallons per Acre)	
	Dilute	Concentrate
Conifers:		
- Forest Stands	Not used	10 to 20 (aircraft)
- Christmas Trees	100	10 to 50 (aircraft or ground equipment)
- Nursery Beds	100	5 to 10 (ground equipment only)

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CROP	DISEASES	QUALI-PRO CHLOROTHALONIL 500 ZN RATE PINTS/ACRE	QUALI-PRO CHLOROTHALONIL 500 ZN RATE PINTS/100 GAL- LONS*	SEASONAL LIMIT PINTS/ ACRE	APPLICATION DIRECTIONS
CONIFERS Pine Spruce	Swiss Needlecast	4.0 to 7.9	4.0 to 7.9	31.6	Single-application technique: In Christmas tree plantations or forest stands, make 1 application in the spring when new shoot growth is 1/2 to 2 inches in length.
	Schleroderris Canker (Pines) Swiss Needlecast	2.2 to 4.0	2.2 to 4.0		Make the first application in spring when new shoot growth is 1/2 to 2 inches in length. Make additional applications at 4-week intervals until conditions no longer favor disease development. For use in nursery beds, apply the highest rate specified on a 4-week schedule.
	Sirococcus Tip Blight	2.8 to 5.0	2.8 to 5.0		
	Rhizosphaera Needlecast (Spruces) Schirrhia Brown Spot (Pines)	7.9	7.9		
	Cyclaneusma and Lophodermium Needlecasts (Pines)	4.0 to 7.9	4.0 to 7.9		Apply in early spring prior to budbreak. Repeat applications at approximately 6- to 8-week intervals, until spore release ceases in late fall. Apply monthly during periods of frequent rainfall, and where Lophodermium infections occur during dormancy (Pacific Northwest). During drought periods, applications may be suspended, then resumed upon next occurrence of needle wetness.
	Rhabdocline Needlecast (Douglas fir)	2.2 to 4.0	2.2 to 4.0		Apply at budbreak and repeat at 4-week intervals until needles are fully elongated and conditions no longer favor disease development. In plantations of mixed provenance, or when irregular budbreak occurs, apply weekly until all trees have broken bud, then every 4 weeks as specified above. In nursery beds, use the high rate on a 4-week schedule.
	Botrytis Seedling Blight Phoma Twig Blight	2.2 to 4.0	2.2 to 4.0		Begin applications in nursery beds when seedlings are 4 inches tall and when cool, moist conditions favor disease development. Make additional applications at 7- to 14-day intervals as long as disease favorable conditions persist.
	Autoecious Needle Rust (Weir's Cushion)	7.9	7.9		Begin applications when 10% of buds have broken and twice thereafter at 7- to 10-day intervals for seed beds.

*Volumetric rates to be used only with full dilute spray volume specified on this label for tree crops.

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GRASSES: GOLF COURSE FAIRWAYS

For low disease pressure, follow the retreatment intervals and the application rates provided below.

For an extreme disease condition, a single maximum application of 21.6 pints per acre with a minimum retreatment interval of 7 days can be made each year. After making the 21.6 pint per acre application, the low disease regime must be followed for the remainder of the year.

For Quali-Pro Chlorothalonil 500 ZN, no more than 49.8 pints/acre may be applied per year on fairways.

For reentry into treated areas, refer to the **Non-Agricultural Use Requirements** box.

Diseases Controlled	Low Disease Pressure Treatment Regime		Extreme Disease Condition		Maximum Application Rate per Year for Fairways (Pints/acre)
	Retreatment Interval (days)	Application Rate (Pints/acre)	Maximum Single Application Allowed In a Year (Pints/acre)	Minimum Retreatment Interval for the Maximum Single Application (days)	
Dollar spot	7 - 10	3.88 ^a - 7.2	21.6	7	49.8
	14 - 21	7.2 - 13.9			
Leaf Spot, Melting Out, Brown Blight	7 - 10	7.2			
	14 - 21	7.2 - 13.9			
Brown Patch	7 - 14	7.2 - 13.9			
Gray Leaf Spot	7 - 10	7.2 - 13.9			
Red Thread	7 - 10	7.2 - 13.9			
Anthracnose	7 - 14	11.6 - 13.9			

^aLow rate is not effective on intensively mowed grasses.

Diseases are caused by some of the following fungi:

Dollar Spot: *Sclerotinia homeocarpa*, *Lanzia* or *Moellerodiscus* spp.

Leaf Spot, Melting out and Brown Blight: *Drechslera* spp., *Bipolaris* spp., *Curvularia* spp.

Brown Patch: *Rhizoctonia* spp.

Anthracnose: *Colletotrichum*.

GRASSES: GOLF COURSE TEES, GREENS, AND ORNAMENTAL TURF USES

For low disease pressure, follow the retreatment intervals and the application rate provided below. For an extreme disease condition, a single maximum application of 21.6 pints per acre with a minimum retreatment interval of 7 days can be made. For Quali-Pro Chlorothalonil 500 ZN, maximum yearly application limits exist for fairways, greens and other non-residential ornamental turf, such as municipal parks. For reentry after treatment, follow requirements outlined in the **Non-Agricultural Use Requirements** box.

Diseases Controlled	Retreatment Interval (days)	Application Rate (fl. oz. per 1000 sq. ft.)		Maximum Application Rate per Year for Ornamental Turf, Tees and Greens (Fl. oz. per 1000 sq. ft)
		Low Disease Pressure Regime	High Disease Pressure Regime Single Maximum Application (Fl. oz.) and Retreatment Interval (days)	
Dollar Spot	7 to 14	3.0 - 5	7.9 (14)	18.2 fl. oz. per 1000 sq. ft. (ornamental turf)
Brown Patch	7 to 14	3.0 - 5	7.9 (14)	
Leaf Spot, Melting Out	7 to 10	3.0 - 5	7.9 (14)	
Gray Leaf Spot	7 to 10	3.0 - 5	7.9 (14)	36.5 fl. oz. per 1000 sq. ft. (tees)
Red Thread	7 to 10	3.0 - 5	7.9 (14)	
Anthracnose	7 to 14	3.0 - 5	7.9 (14)	
Copper Spot	7 to 10	3.0 - 5	7.9 (14)	51.4 fl. oz. per 1000 sq. ft. (greens)
Stem Rust (Bluegrass)	7 to 14	3.0 - 5	7.9 (14)	
DICHONDRA: Leaf Spot (CALIFORNIA ONLY)	7 to 14	3.0 - 5	7.9 (14)	

Diseases are caused by some of the following fungi:

Dollar Spot: *Sclerotinia homeocarpa*, *Lanzia* or *Moellerodiscus spp.*

Brown Patch: *Rhizoctonia spp.*

Leaf Spot, Melting out and Brown Blight: *Drechslera spp.*, *Blipolaris spp.*, *Curvularia spp.*

Gray Leaf Spot: *Pyricularia spp.*

Red Thread: *Laetisaria luciformis*.

Anthracnose: *Colletotrichum spp.*

Copper Spot: *Gloeocercospora spp.*

Stem Rust: *Puccinia spp.*

Dichondra Leaf Spot: *Alternaria spp.*

Gray Snow Mold caused by *Typhula spp.*: Apply in sufficient water to obtain adequate coverage (2.9 to 14.4 gallons per 1000 sq. ft.). Apply a single application of 7.9 fluid ounces of Quali-Pro Chlorothalonil 500 ZN per 1000 sq. ft. of turf area. Application must be made before snow cover in autumn. If snow cover is intermittent or lacking during the winter, reapply at 7.9 fl. oz. per 1000 sq. ft. at monthly intervals until Gray Snow Mold conditions no longer prevail. In areas where Pink Snow Mold (*Gerlachia* or *Fusarium Patch*) is likely to occur, apply Quali-Pro Chlorothalonil 500 ZN at 7.9 fl. oz. in combination with products containing iprodione at 2 oz. active ingredient per 1000 sq. ft. of turf area. Read and observe all label directions for products containing this active ingredient. A maximum seasonal limit of 18.2 oz. per 1000 sq. ft. may be applied to ornamental turf, no more than 36.5 oz. per 1000 sq. ft. may be applied to tees, and a maximum seasonal amount of 51.4 oz. per 1000 sq. ft. of

Quali-Pro Chlorothalonil 500 ZN may be applied to greens.

Fusarium (*Gerlachia*) Patch: For control of *Fusarium Patch* only in areas where snow cover is intermittent or lacking during the winter, apply 7.9 fl. oz. of Quali-Pro Chlorothalonil 500 ZN per 1000 sq. ft. Begin applications in autumn and reapply at 21- to 28 day intervals until conditions favorable for *Fusarium Patch* no longer prevail. A maximum seasonal limit of 18.2 oz. per 1000 sq. ft. may be applied to ornamental turf, no more than 36.5 oz. per 1000 sq. ft. may be applied to tees, and a maximum seasonal amount of 51.4 oz. per 1000 sq. ft. of Quali-Pro Chlorothalonil 500 ZN may be applied to greens.

Algae: For prevention of algae on turfgrasses, apply Quali-Pro Chlorothalonil 500 ZN at the rate of 3 to 7.9 fl. oz. per 1000 sq. ft. on

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a 7 to 14 day schedule. When algae is well-established, every attempt should be made to dry out the afflicted area. Once dry, spiking or verticutting should be done to enhance turfgrass recovery in conjunction with Quali-Pro Chlorothalonil 500 ZN applications. Several applications may be necessary for turfgrass recovery. Only a preventive spray program with Quali-Pro Chlorothalonil 500 ZN will prevent a recurrence of the algae when environmental conditions are favorable for algal growth. A maximum seasonal limit of 18.2 oz. per 1000 sq. ft. may be applied to ornamental turf, no more than 36.5 oz. per 1000 sq. ft. may be applied to tees, and a maximum seasonal amount of 51.4 oz. per 1000 sq. ft. of Quali-Pro Chlorothalonil 500 ZN may be applied to greens.

GRASS: SODFARMS

Use of this product on home lawns is prohibited.

Apply Quali-Pro Chlorothalonil 500 ZN in 30 to 40 gallons of water

per acre. Begin applications when conditions favor disease development and repeat applications as long as these conditions persist using the rates recommended in the following table.

Under severe disease conditions, a single application of 21.6 pints per acre may be made with a 7 day retreatment interval. Subsequent applications must follow the rates and retreatment intervals outlined in the following table for the remainder of the year.

DO NOT mow or water after treatment until spray deposited on grass is thoroughly dry. Quali-Pro Chlorothalonil 500 ZN should always be used in conjunction with good turf management practices.

Sodfarm turf treated with chlorothalonil prior to harvest must be mechanically cut, rolled, and harvested. Follow all provisions outlined in the **Agricultural Use Requirements** box.

Diseases Controlled	Low Disease Pressure Treatment Regime		Extreme Disease Condition		Application Limit per Year for Sodfarms (Pints/acre)
	Retreatment Interval (days)	Application Rate (Pints/acre)	Maximum Single Application Allowed in a Year (Pints/acre)	Minimum Retreatment Interval for the Maximum Single Application (days)	
Dollar spot	7 - 10	3.88 ^a - 7.2	21.6	7	49.8
	14 - 21	7.2 - 13.9			
Leaf Spot,	7 - 10	7.2			
Melting Out, Brown Blight	14 - 21	7.2 - 13.9			
Brown Patch	7 - 14	7.2 - 13.9			
Gray Leaf Spot	7 - 10	7.2 - 13.9			
Red Thread	7 - 10	7.2 - 13.9			
Anthracnose	7 - 14	11.6 - 13.9			

^aLow rate is not effective on intensively mowed grasses.

Diseases are caused by some of the following fungi:

Dollar Spot: *Sclerotinia homeocarpa*, *Lanzia* or *Moellerodiscus spp.*

Leaf Spot, Melting out and Brown Blight: *Drechslera spp.*, *Bipolaris spp.*, *Curvularia spp.*

Brown Patch: *Rhizoctonia spp.*

Anthracnose: *Colletotrichum*.

ORNAMENTAL PLANTS

Quali-Pro Chlorothalonil 500 ZN may be used on ornamental plants grown in the field, nurseries, greenhouses and for spot-treatment of ornamentals plants growing in landscapes. Due to the large number of species and varieties of ornamental and nursery plants, and the widely varying growing conditions, it is impossible to test every one for sensitivity to Quali-Pro Chlorothalonil 500 ZN. Prior to commercial use, apply the recommended rates to a small

area of plants in question, i.e. bedding plants, foliage, etc., and observe for 7 to 10 days prior to treatment of a commercial crop.

Field-grown ornamentals:

No more than 69.1 pints per acre of Quali-Pro Chlorothalonil 500 ZN may be applied to field-grown ornamentals per year.

For aerial application to field-planted ornamentals, a minimum rate of 10 gals of spray per acre should be used during application. Quali-Pro Chlorothalonil 500 ZN should be applied to plants when both foliage and flowers are dry or nearly dry.

For field-grown roses, apply 2 pints of Quali-Pro Chlorothalonil 500 ZN per acre for a single application. For field-planted pachysandra, apply 5.9 pints per acre of Quali-Pro Chlorothalonil 500 ZN for a single application.

Ornamentals grown in nurseries, greenhouses:

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DO NOT use mistblowers or high pressure spray equipment when making applications of Quali-Pro Chlorothalonil 500 ZN in greenhouses.

Apply Quali-Pro Chlorothalonil 500 ZN at a rate of 1.9 pints per 100 gallons of water unless other directions are given in tables below. Apply in a spray until foliage run-off occurs when conditions are favorable for disease development. Repeat applications at 7- to 14-day intervals until conditions are no longer favorable. During periods when conditions favor severe disease incidence, generally cloudy or wet weather, apply Quali-Pro Chlorothalonil 500 ZN at 7 day intervals. Quali-Pro Chlorothalonil 500 ZN should be applied to plants when both foliage and flowers are dry or nearly dry.

DO NOT combine Quali-Pro Chlorothalonil 500 ZN in the spray tank with pesticides, surfactants or fertilizers unless prior use has shown the combination to be physically compatible, effective and noninjurious under your conditions of use.

Spot-treatment of ornamental plants growing in landscapes:

Apply Quali-Pro Chlorothalonil 500 ZN at a rate of 1.9 teaspoons per 2 gallons of water. Apply in a spray until foliage run-off occurs when conditions are favorable for disease development. Repeat applications at 7- to 14-day intervals until conditions are no longer favorable. During periods when conditions favor severe disease incidence, generally cloudy or wet weather, apply Quali-Pro Chlorothalonil 500 ZN at 7 day intervals. Quali-Pro Chlorothalonil 500 ZN should be applied to plants when both foliage and flowers are dry or nearly dry.

Use of Quali-Pro Chlorothalonil 500 ZN is recommended for control of fungal diseases referred to by numbers in parentheses following each ornamental. Ornamentals listed on this label have been tested and found to tolerate applications of Quali-Pro Chlorothalonil 500 ZN at the recommended rates. The user should test for possible phytotoxic responses, using recommended rates on ornamental plants on a small area prior to commercial treatments. Applications made during bloom may damage flowers and/or fruits.

NOTE: Fruits and other treated foliage must not be eaten or fed to livestock.

Diseases controlled by Quali-Pro Chlorothalonil 500 ZN:

1. Leaf Spots/Follar Blights:

Actinopelte Leaf Spot
Alternaria Leaf Spot/Leaf Blight
Anthracnose Leaf Blotch/Spot
Anthracnose (Discula) Blight
Ascochyta Blight
Bipolaris (Helminthosporium) Leaf Spot
Botrytis Leaf Spot/Leaf Blight
Cephalosporium Leaf Spot
Cercospora Leaf Spot
Cercosporidium Leaf Spot
Coryneum Blight (shothole)
Corynespora Leaf Spot
Curvularia Leaf Spot
Cylindrosporium Leaf Spot
Dactylaria Leaf Spot
Didymellina Leaf Spot
Dreschlera Leaf Spot
Fabraea (Entomosporium) Leaf Spot
Fusarium Leaf Spot
Gloeosporium Black Leaf Spot
Inkspot (Dreschlera)

Marssonina Leaf Spot
Monilinia Blossom Blight, Twig Blight
Mycosphaerella Ray Blight
Myrothecium Leaf Spot/Brown Rot
Nematostoma Leaf Blight
Phyllosticta Leaf Spot
Rhizoctonia Web Blight
Ramularia Leaf Spot
Septoria Leaf Spot
Sphaeropsis Leaf Spot
Stagonospora Leaf Scorch
Tan Leaf Spot (Curvularia)
Volutella Leaf Blight

2. Flower Spots/Blights:

Botrytis Flower Spot/Flower Blight
Curvularia Flower Spot
Monilinia Blossom Blight
Ovulinia Flower Blight
Rhizopus Blossom Blight
Sclerotinia Flower Blight

3. Cylindrocladium Stem Canker

4. Phytophthora Leaf Blight/Dieback

5. Powdery Mildews:

Erysiphe cichoracearum
Microsphaera spp.

6. Rusts:

Gymnosporangium spp.
Puccinia spp.
Pucciniastrum hydrangeae

7. Taphrina Blister

8. Scab:

Venturia inaequalis

Chlorothalonil 500 ZN

Specimen Label

Ornamentals recommended for treatment with Quali-Pro Chlorothalonil 500 ZN:

Avoid applications during bloom periods for those plants where flower injury is unacceptable.

For poinsettia, discontinue applications prior to bract formation; phytotoxicity is possible on bracts. For roses, use 1.6 pints per 100 gallons of water.

Plant	Disease(s)	Comments/Instructions:
Aglaonema	1	
Andromeda (Pieris)	4	
Arabian Violet	2	
Areca palm	1	
Artemesia	1	
Ash, Fraxinus	1	
Aspen	1	
Azalea	1,2,4	
Begonia	1	
Boston fern	1	
Buckeye, Horsechestnut	1	
Camellia	2	
Carnation	1,2	
Cherry-laurel	1	
Chrysanthemum	1,2	
Crabapple	1,6,8	
Crocus	1	
Daffodil	1	
Daisy	1	
Daylily	6	
Dogwood	1	
Dumbcane, Dieffenbachia	1	
Dracaena	1	
Eucalyptus	3	
Euonymus	1	
Fatsia (Aralia)	1	
Ficus	1	
Firethorn, Pyracantha	1	
Florida Ruffle Fern	1	
Flowering Almond	1,2	
Flowering Cherry	1,2	
Flowering Peach	1,2	
Flowering Plum	1,2	
Flowering Quince	1,2	
Geranium	1,6	
Gladiolus	1,2	
Hawthorn	1,6	
Holly	1	
Hollyhock	6	
Hydrangea (foliage only)	1,6	
Iris	1,2	
Leatherleaf Fern	1	
Lilac	5	
Lily	1	
Lipstick plant	1	
Magnolia	1	
Maple	1	
Marigold	1	
Ming aralia	1	
Mountain Laurel	1	
Narcissus	1	
Oak (red group only)	1,7	
Oregon Grape (Mahonia)	6	
Oyster plant (Rhoeoe)	1	
Pachysandra	1	
Pansy	1	
Parlor palm (Chamaedorea)	1	
Peperomia	1	
Petunia	1,4	
Philodendron	1,4	

Use 4.3 pints of Quali-Pro Chlorothalonil 500 ZN per 100 gallons of water for greenhouse-grown plants.

Chlorothalonil 500 ZN

Specimen Label

Phlox	1
Photinia	1
Poinsettia	1
Poplar	1
Prayer Plant (Maranta)	1
Privet, Ligustrum	1
Rhododendron	1,2,4
Rose	1
Sand Cherry	1,2
Sequoia	1
Spiraea	1
Statice	1
Sycamore, Planetree	1
Syngonium	1
Tulip	1
Viburnum	5
Walnut, Juglans	1
Zebra plant (Aphelandra)	1
Zinna	1,5

Discontinue applications prior to bract formation; phytotoxicity is possible.

Use 1.6 pints per 100 gallons of water for greenhouse grown plants.

The following ornamental plant species which have been tested with Quali-Pro Chlorothalonil 500 ZN at recommended rates (1.9 teaspoons per 2 gallons of water, 7 to 14 day retreatment interval) did not exhibit phytotoxicity:

Botanical Name:

Aechmea fasciata
Araucaria heterophylla
Asplenium nidus
Bougainvillea spp.
Caladium spp.
Calathea makoyana
Callistephus chinensis
Carissa grandiflora
Clerodendron thomsonae
Codiaeum spp.
Cordyline terminalis
Crassula argentea
Cyrthodium falcatum
Dionaea muscipula
Dizygotheca elegantissima
Epipremnum aureum
Episcia cupreata
Fittonia spp.
Gerbera jamesonii
Gynura sarmantosa
Gypsophila paniculata
Hoya spp.
Ilex cornuta
Ilex crenata
Impatiens spp.
Pilea cadierel
Platynerium spp.
Sansevieria trifasciata "Hahnii"
Tolmiea menziesii
Yucca elephantipes
Zygocactus truncatus

Common Name:

Aechmea
Norfolk Island Pine
Birdnest Fern
Bougainvillea
Caladium
Peacock plant
Aster
Natal plum
Bleeding Heart
Croton
Ti Plant
Jade Plant
Holly Leaf Fern
Venus Fly Trap
False Aralia
Golden Pothos, Scindapsus
Flame Violet
Silver-nerve Plant
Gerber Daisy
Purple Passion Vine
Baby's Breath
Wax Plant
Chinese Holly
Japanese Holly
Impatiens
Aluminum Plant
Staghorn Fern
Birdsnest Sansevieria
Piggy-back Plant
Spineless Yucca
Christmas Cactus

FarmSaver.com, LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth in the DIRECTIONS FOR USE when it is used in accordance with such directions, subject to the inherent risks mentioned above.

FARMSAVER.COM, LLC NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

THIS WARRANTY EXTENDS TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS, OR CAUTIONS. BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLER'S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR, THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

FarmSaver.com, LLC and the seller offer this product, and the buyer and user accept it, subject to the foregoing CONDITIONS OF SALE AND WARRANTY.

Quali-Pro is a trademark of FarmSaver.com, LLC.

Benlate is a registered trademark of DuPont.

Copper-N Count is a registered trademark of Mineral Research and Development Corporation.

DIPol is a registered trademark of Abbott Laboratories.

Foil is a registered trademark of Ecogen Inc.

Latron B-1956 is a trademark of Rohm and Haas Company.

Questions? Call 1-800-979-8994.

FarmSaver.com, LLC
PO Box 21365
Seattle, WA 98111

EPA Notif 021805 (BulkStor&Refill)

Note: DO NOT apply Quali-Pro Chlorothalonil 500 ZN to either green or variegated Pittosporum or to Schefflera, as multiple applications have been demonstrated to cause phytotoxic responses.

CONDITIONS OF SALE AND WARRANTY

The DIRECTIONS FOR USE of this product are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of FarmSaver.com, LLC or the seller. All such risks shall be assumed by the buyer.

1. IDENTIFICATION

Product name: **Quali-Pro® Chlorothalonil 500 ZN**
 Chemical name of active ingredient(s): Chlorothalonil (38.5%): Tetrachloroisophthalonitrile
 Manufacturer: FarmSaver.com, LLC.
 4515 Falls of Neuse Road, Suite 300
 Raleigh, NC 27609
 Phone: 1-800-979-8994

For fire, spill, and/or leak emergencies, contact Chemtrec: Phone: 1-800-424-9300
 Outside US: 1-703-527-3887

For medical emergencies and health and safety inquiries, contact Prozar: Phone: 1-800-308-5391

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMMON NAME	CAS NO.	%	OSHA PEL	ACGIH TLV	OTHER	NTP/IARC/OSHA (Carcinogen)
Chlorothalonil	1897-45-6	38.5	NE	NE	10 mg/m ³	IARC – 2B*
NE=not established						
*IARC Group 2B: The agent is possibly carcinogenic to humans.						

3. HAZARDS IDENTIFICATIONS

PHYSICAL PROPERTIES

Appearance: Gray liquid
 Odor: Slight

EMERGENCY OVERVIEW: WARNING. Hazards to humans and domestic animals. Causes eye irritation. May cause skin irritation. May be a potential skin sensitizer. DO NOT get into eyes. Avoid prolonged contact with skin. Avoid breathing spray mist. DO NOT take internally.

HAZARDOUS DECOMPOSITION PRODUCTS: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition, e.g., hydrogen chloride.

SYMPTOMS OF EXPOSURE: This product may produce temporary allergic side effects characterized by redness of the eyes, mild bronchial irritation and redness or rash on exposed skin areas. Persons having allergic reactions should contact a physician. Contains propylene glycol that is reported to cause central nervous system depression (anesthesia, dizziness, confusion), headache and nausea.

4. FIRST AID MEASURES

FIRST AID	
IF IN EYES:	<ul style="list-style-type: none"> 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.
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-308-5391 for emergency medical treatment information.	
Note to physician: Persons having temporary skin irritation symptoms may respond to treatment with antihistamines or steroid creams and/or systemic steroids.	

5. FIRE FIGHTING MEASURES

FLASH POINT: Not applicable

FLAMMABLE LIMITS:

LFL/UFL: Not applicable

EXTINGUISHING MEDIA: Dry foam, carbon dioxide extinguishing media.

HAZARDOUS DECOMPOSITION PRODUCTS: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition, e.g., hydrogen chloride.

FIRE-FIGHTING PROCEDURES: If product is involved in a fire, wear positive-pressure, self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS/LEAKS: This product is toxic to fish. Keep out of lakes, streams or ponds. Contain spill. Remove as much as possible by absorbing with an inert material. Scrub area with a hard water detergent (commercial products such as Spic and Span®, Tide®, or Joy®). Remove any contaminated soil. Place in closed, labeled containers and store in a safe place until disposed. Do not contaminate water while cleaning equipment or disposing of wastes.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING: Keep container closed to prevent spills and contamination. Carefully open containers. After partial use, replaced lid and close tightly.

PRECAUTIONS TO BE TAKEN IN STORAGE: Do not contaminate water, foodstuffs, feed or seed by storage. Store in a cool place. Protect from excessive heat. Store product in original container only away from water, food or feed. Do not put concentrate or diluted product into food or drink containers.

STORAGE TEMPERATURE (MIN/MAX): Normal ambient temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

EYE PROTECTION: Protective eyewear.

SKIN PROTECTION: Long-sleeved shirt and long pants, shoes plus socks.

HAND PROTECTION: Chemical-resistant gloves, such as nitrile rubber or butyl rubber.

RESPIRATOR REQUIREMENTS: Atmospheric levels should be maintained below the exposure guidelines. For most conditions, no respiratory protection should be needed; however, if handling without sufficient ventilation, use NIOSH approved air-purifying respirator with N, P or R95 class filter and an organic vapor cartridge.

ADDITIONAL PROTECTIVE MEASURES: Discarded 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 and maintaining PPE. If no such instructions for washables, 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 immediately after handling this product.
- Wash outside of gloves before removing.
- As soon as possible, wash thoroughly and change into clean clothing.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

EXPOSURE GUIDELINES: Refer to Section 2.

ENGINEERING CONTROLS: Refer to product label.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL PROPERTIES

Appearance: Gray liquid

Odor: Slight

FLASH POINT: Not applicable

PH: 6.5-8.5

BOILING POINT: 212° F

MATERIAL SAFETY DATA SHEET

Quali-Pro® Chlorothalonil 500 ZN

Page 3 of 4

MELTING POINT: Not established

SOLUBILITY IN H₂O: Dispersible

SPECIFIC GRAVITY: 1.30

VAPOR PRESSURE: 5.72 x 10⁻⁷ torr @ 25° C

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal use and storage conditions.

MATERIALS TO AVOID: Avoid metals such as aluminum.

HAZARDOUS POLYMERIZATION: Will not occur.

INSTABILITY CONDITIONS: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition, e.g., hydrogen chloride.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY/IRRITATION STUDIES

Acute Oral LD50 (Rat):	3,750 mg/kg
Acute Dermal LD50 (Rabbit):	>2,000 mg/kg
Acute Inhalation LC50 (Rat):	0.25 mg/L (4-hrs)
Eye Irritation (Rabbit):	Mildly irritating.
Dermal Irritation (Rabbit):	Moderately irritating.
Dermal Sensitization (Guinea Pig):	Moderate skin sensitizer.

No other toxicological data available.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: This product is toxic to aquatic invertebrates and wildlife. Do not apply directly to water or 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 neighboring areas. Do not contaminate water when disposing of equipment wash water or rinsate.

13. DISPOSAL CONSIDERATIONS

END USERS MUST DISPOSE OF ANY UNUSED PRODUCT AS PER THE LABEL RECOMMENDATIONS.

PRODUCT DISPOSAL: Do not contaminate water, food or feed by disposal. Improper disposal of excess pesticide, pesticide spray or rinsate is a violation of Federal law. Wastes resulting from the use of this product that cannot be used according to the label instructions or chemically reprocessed may be disposed on site or at a landfill or waste disposal facility approved for waste disposal, or in accordance with all applicable Federal, state, or local regulations.

CONTAINER DISPOSAL: Empty containers retain vapor and product residues. Follow all labeled safeguards until container is cleaned, reconditioned or destroyed.

14. TRANSPORT INFORMATION

DOT CLASSIFICATION:

Not regulated

B/L Freight Classification: Item: 102120 [Insecticides, Fungicides, Insect or Animal Repellent]
Class 60

INTERNATIONAL TRANSPORTATION

IMO (vessel): Environmentally hazardous substances, liquid, N.O.S. (chlorothalonil 38.5%), 9, UN3082, PGIII, Marine pollutant

IATA (air): Not regulated

15. REGULATORY INFORMATION

SARA TITLE III CLASSIFICATION:

Section 302:	Not applicable.
Section 311/312:	Acute health hazard (immediate)

Section 313: Delayed health hazard (chronic)
Chlorothalonil (38.5%) CAS# 1897-45-6

CA PROPOSITION 65: This product contains a chemical (chlorothalonil) that is known to the State of California to cause cancer.

CERCLA RQ: Not applicable

RCRA CLASSIFICATION: 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.

TSCA STATUS: The ingredients of this product are listed on the TSCA inventory or are exempt.

16. OTHER INFORMATION

MSDS DATE: 11-19-07

The information herein is given in good faith, but no warrant, express or implied, is made. Consult FarmSaver.com, LLC. for further information.

QUALI-PRO

Mefenoxam 2 AQ

Specimen Label

An aqueous flowable fungicide for the control of certain diseases in various turf, nursery, and ornamental crops caused by the Oomycete class of fungi.

Active Ingredient:

Mefenoxam*: (R)-2-[(2,6-dimethylphenyl) methoxyacetyl]amino propionic acid methyl ester 22.5%

Other Ingredients: 77.5%

Total: 100.0%

*Contains 2 lbs. active ingredient per gallon.

EPA Reg. No. 70252-11-73220

EPA Est. No. 37429-GA-2

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID	
If in eyes	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of soap and water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none"> Call a poison control center or doctor. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.
<p>HAVE THE PRODUCT CONTAINER OR LABEL WITH YOU WHEN CALLING A POISON CONTROL CENTER OR DOCTOR OR GOING FOR TREATMENT. For medical emergencies involving this product, call 1-800-308-5391.</p> <p>NOTE TO PHYSICIAN: If ingested, induce emesis or lavage stomach. Treat symptomatically.</p>	

See additional Precautionary Statements and Directions for Use inside booklet.

Manufactured for FarmSaver.com, LLC • P.O. Box 21365 • Seattle, WA 98111

Net Contents: 2.5 Gallons (9.48 liters)

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Harmful if absorbed through the skin. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long sleeved shirt and long pants
- Chemical resistant gloves made of any waterproof material
- Shoes plus socks

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, 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 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.

Environmental Hazards

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water when disposing of equipment wash waters or rinsate.

Groundwater Advisory

This chemical is known to leach through soil into groundwater under certain conditions as a result of agricultural use. 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

Do not use, pour, spill or store 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.

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. **Exception:** If the product is soil incorporated, or applied by drenching, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated areas if there will be no contact with anything that has been treated. The REI for chemigation via microsprinklers, floor drip, and drip line irrigation is zero hours. The REI for soil surface applications is zero hours after sufficient rainfall occurs or overhead or hand held irrigation is used to thoroughly wash the product into the soil and off any foliage.

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
- Shoes plus socks

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 treated areas without footwear until sprays have dried.

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR DISEASE CONTROL OR CROP INJURY.

GENERAL INFORMATION

Quali-Pro Mefenoxam 2 AQ is an aqueous flowable systemic fungicide for use on select turf, nursery, and ornamental crops to control certain diseases caused by members of the Oomycete class of fungi. Other fungicides must be used to control diseases incited by other classes of fungi.

Mefenoxam 2 AQ

Specimen Label

Note: Quali-Pro Mefenoxam 2 AQ is a systemic fungicide having a specific mode of action and its use could be subject to development of insensitive strains of fungi. Development of insensitivity cannot be predicted. Therefore, FarmSaver.com LLC cannot assume liability for crop damage resulting from insensitive strains of fungi. If treatment is not effective following the use of Quali-Pro Mefenoxam 2 AQ as recommended, an insensitive strain of fungi may be present. If the treatment is ineffective due to the presence of an insensitive strain of fungi, neither Quali-Pro Mefenoxam 2 AQ nor any other fungicide with similar action will effectively control that disease. Consideration should then be given to the prompt use of other types of suitable fungicides. Do not make foliar applications to field grown tobacco, or other crops, unless specified since this practice may encourage more rapid development of insensitivity. Consult with your State Agricultural Experiment Station or Extension Service Specialist for guidance on your particular crop and disease control situation.

Do not make foliar applications unless specified since this practice may encourage more rapid development of insensitivity.

Where rate ranges are specified on this label, use the higher rate when heavy disease pressure is expected and the lower rate when disease pressure is expected to be light, unless otherwise noted.

To avoid spray drift, do not apply under windy conditions. Avoid spray overlap, as crop injury may result.

MIXING INSTRUCTIONS

Prepare only the amount of spray mixture that is immediately required. Agitate the spray solution continuously during mixing and application. Thoroughly rinse the mix tank and spray tank with clean water after each day's use and dispose of rinse water by application to area(s) already treated.

Quali-Pro Mefenoxam 2 AQ Alone: Add 1/4 - 1/2 of the required amount of water to the spray tank. With the agitator running, add the proper amount of Quali-Pro Mefenoxam 2 AQ, then add the rest of the water. Begin application of the spray solution after this product has completely dispersed into the mix water. Maintain agitation until all of the mixture has been sprayed.

Tank Mixtures: When tank mixing other products with Quali-Pro Mefenoxam 2 AQ, follow the proper sequence of adding products to the spray tank. Wettable powders or water dispersible granules should be added to the water in the tank first, followed by liquid flowable products such as Quali-Pro Mefenoxam 2 AQ, with emulsifiable concentrates added last. Provide continuous agitation during mixing and application.

Note: When tank mixing with products packaged in water-soluble packaging, those products should be added to the mix tank first and the water-soluble packaging must be allowed to completely dissolve and the product(s) allowed to completely disperse before adding any other tank-mix partner to the tank.

Note: Compatibility with tank-mix partners must be determined. To determine the compatibility of Quali-Pro Mefenoxam 2 AQ with other products, pour the products into a small container of water in the correct proportions. After thorough mixing, let stand for 5 minutes. If the combination remains mixed, or can be re-mixed readily, the mixture should be considered compatible.

BEFORE TANK MIXING QUALI-PRO MEFENOXAM 2 AQ WITH OTHER REGISTERED PRODUCTS FOR ANY USE ON THIS LABEL, READ THE LABEL OF THE TANK MIX PARTNER TO BE CERTAIN IT IS LABELED FOR USE ON THE PARTICULAR CROP AND THAT USE PATTERNS ARE COMPATIBLE WITH THOSE OF QUALI-PRO MEFENOXAM 2 AQ. OBSERVE ALL DIRECTIONS, PRECAUTIONS AND LIMITATIONS OF TANK MIX PARTNER LABELS, OBSERVING THE MOST RESTRICTIVE REQUIREMENT(S).

APPLICATION INSTRUCTIONS (GENERAL)

Apply Quali-Pro Mefenoxam 2 AQ by ground in sufficient water or liquid fertilizer to provide uniform coverage of the soil surface. Apply in a minimum of 20 gals/ac for ground applications, 5 gals/ac by air. Refer to the specific crop use directions for application recommendations.

For banded applications, the treated area is actually the area covered by the band, not the total cropland area planted. Some row-crop recommendations are based on treating in the row and these rates generally are specified as amounts (fl. oz.) of product per certain row length (often 1,000 ft.). Others express rates as amount per treated acre, which means the total area treated with the pesticide. If rates are expressed as amount per treated acre and banded applications are used, the amount of pesticide used per acre will be proportionately less. The following formula can be used to calculate the amount of Quali-Pro Mefenoxam 2 AQ needed per acre of crop when banded applications are made:

$$\frac{\text{band width in inches}}{\text{row spacing in inches}} \times \text{broadcast rate per acre} = \text{amount needed per acre of field}$$

APPLICATION THROUGH IRRIGATION SYSTEMS

Quali-Pro Mefenoxam 2 AQ, alone or in combination with other pesticides which are registered for application through irrigation systems, may be applied through irrigation systems. Apply this product only through center pivot, solid set, hand move, moving wheel, micro-sprinkler, pressurized drench (flood) or drip (trickle), micro-irrigation such as spaghetti tube or individual tube irrigation, calibrated hand-held irrigation equipment such as the hand-held wand with injector, calibrated overhead watering booms, ebb and flow or bench flooding sub or drip irrigation systems. Do not apply this product through any

other type of irrigation system. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. Quali-Pro Mefenoxam 2 AQ should be diluted with water on a 1/10 basis prior to injection into an irrigation system. Proper tank-mix agitation is required during this mixing procedure.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system, unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Safety Devices for Chemigation Systems Connected to Public Water Systems

If the source of water for your irrigation system is a public water supply, follow the instructions below.

1. A "public water system" is a system used to provide to the public piped water for human consumption if such system has a minimum of 15 service connections or regularly serves an average of a minimum of 25 individuals per day at least 60 days of the year.
2. A chemigation system that is connected to a public water system must contain a functional, reduced pressure zone, backflow preventer (RPZ) (or the functional equivalent) in the water supply line upstream from where the pesticide is introduced. An option to the RPZ: Discharge the water from the public water system into a reservoir tank before pesticide introduction. There must be a complete physical break (air gap) between the fill pipe's outlet end and the top (or overflow) rim of the reservoir tank of at least twice the fill pipe's inside diameter.
3. The pesticide injection pipeline must contain a functional, automatic quick closing check valve that will prevent the flow or fluid from flowing back toward the injection pump.
4. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve that is located on the injection pump's intake side and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either manually or automatically shut down.
5. The system must contain functional interlocking controls that will automatically shut off the pesticide injection pump when the water pump motor stops, or if there is no water pump, when water pressure decreases to the point when pesticide distribution is adversely affected.
6. Systems must use a metering pump, as a positive displacement injection pump (e.g. diaphragm pump) that is effectively designed and constructed of materials compatible with pesticides and that is capable of being fitted with a system interlock.
7. Do not apply this product when wind speed favors drift beyond the area that is intended for treatment.

Safety Devices for Chemigation Systems Not Connected to a Public Water Supply

1. The system must contain a functional check-valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water-source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check-valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended.

Application Instructions—Irrigation Systems

Quali-Pro Mefenoxam 2 AQ must be applied on the schedule specified in the specific crop use recommendations, not according to the irrigation schedule.

Quali-Pro Mefenoxam 2 AQ has not been sufficiently tested when applied through irrigation systems to assure consistent product performance for all labeled uses. The following calibration and application techniques are provided for user reference, **but do not constitute a warranty of fitness for application through sprinkler or drip irrigation equipment.** Users must check with state and local regulatory agencies for potential use restrictions before applying any agricultural chemical through sprinkler or drip irrigation equipment.

Note: Do not inject at full strength; always dilute with at least 10 parts water to 1 part Quali-Pro Mefenoxam 2 AQ.

Center Pivot Irrigation Equipment

Use only with drive systems that provide uniform distribution.

1. Determine the size of the area to be treated.
2. Determine the time required to apply 1/2 to 1 inch of water over the area to be treated when the system and injection equipment are operated at normal pressures as recommended by the equipment manufacturer. Run the system at 80 - 95% of the manufacturer's rated capacity.
3. Using water, determine the injection pump output when operated at normal line pressure.
4. Determine the amount of Quali-Pro Mefenoxam 2 AQ required to treat the area covered by the irrigation system.

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5. Add the required amount of Quali-Pro Mefenoxam 2 AQ and sufficient water to the solution (mix) tank to meet the injection time requirements to the solution tank.
6. Make sure the system is fully charged with water before starting injection of the Quali-Pro Mefenoxam 2 AQ solution. Time the injection to last at least as long as it takes to bring the system to full pressure.
7. Maintain constant solution tank agitation during the injection period.
8. Continue to operate the system until the Quali-Pro Mefenoxam 2 AQ solution has cleared the last sprinkler head.

Solid Set, Hand Move, and Moving Wheel Irrigation Equipment

1. Determine the acreage covered by the sprinklers.
2. Fill injector solution tank with plain water and calibrate the flow rate of the system to deliver the contents of the tank over a 20 to 30 minute time interval.
3. Determine the amount of Quali-Pro Mefenoxam 2 AQ required to treat the area covered by the irrigation system.
4. Add the required amount of Quali-Pro Mefenoxam 2 AQ into the same quantity of water used to calibrate the injection period.
5. Operate the system at the same pressure and time interval established during the calibration.
6. Inject Quali-Pro Mefenoxam 2 AQ at the end of the irrigation cycle in 1/2 - 1 inch of water or as a separate application to maximize the effectiveness of the fungicide. Do not apply in excess of 1 inch of water.
7. Stop injection equipment after treatment is completed. Continue to operate the system until the Quali-Pro Mefenoxam 2 AQ solution has cleared the last sprinkler head.

Micro Sprinkler, Overhead Watering Booms, or Drip Irrigation Systems

General Instructions

1. Each run of the irrigation system must be calibrated separately to determine the time it takes water to move through the system and to make sure all emitters in the system are putting out the same amount of water.
2. Only pressure injection or venturi equipment is recommended.
3. Determine the area to be treated in each irrigation run.
4. Measure the output of each of the emitters or drip tubes closest to and farthest from the injector site.
5. For calibration, substitute a concentrated detergent (such as Wisk) or a soluble fertilizer for the Quali-Pro Mefenoxam 2 AQ in the injector tank. The detergent will bubble as it leaves the emitters. The time period over which bubbles occur should be checked for both the closest and farthest emitters. If these times are not within 2 minutes of each other, adjust the dilution ratio and/or the injection rate.
6. If a soluble fertilizer is used, measure the time intervals with a salt bridge. If a drip system is being calibrated, substitute soluble fertilizer for the Quali-Pro Mefenoxam 2 AQ in the injector and measure the time intervals with a salt bridge.

Step-by-Step Instructions

1. Before starting to calibrate, operate the system until all the emitters are putting out at equal flow rates or until the system is operating at full pressure.
2. Make up an indicator solution of detergent or fertilizer, using the same ratio to be used when mixing the Quali-Pro Mefenoxam 2 AQ.
3. Set the injector to apply the indicator solution at the injection rate to be used in the actual Quali-Pro Mefenoxam 2 AQ application.
4. Attach a 5-inch length of flexible tubing over the emitter closest to the injection point, another length over the emitter farthest away. Both emitters should be monitored to determine the time intervals that the indicator solutions are observed.
5. Begin injecting the indicator solution. Direct the flow from the tubes at the emitters into a small container. Begin timing when the indicator solution is first detected; stop timing when the indicator solutions are no longer detected.
6. If the period of detection of the indicator solution between the 2 emitters is within 2 minutes of each other, comparable coverage will be obtained. If they are not, make adjustments by increasing the dilution ratio, using more water per part of Quali-Pro Mefenoxam 2 AQ, or adjust the injector to a slower flow rate.
7. Once the system is calibrated, dilute the needed amount of Quali-Pro Mefenoxam 2 AQ with water in the mix tank using a minimum of 10 parts water to 1 part Quali-Pro Mefenoxam 2 AQ in the solution tank.
8. Do not begin to inject Quali-Pro Mefenoxam 2 AQ into the system until all emitters are producing equal flow rates, or until the system is at full pressure.

Inject the Quali-Pro Mefenoxam 2 AQ into the system at the end of the irrigation set in 1/2 - 1 inch of irrigation water.

NON-CROP USES

ORNAMENTALS

Use Quali-Pro Mefenoxam 2 AQ on container, bench, or bed-grown ornamentals in greenhouses or outdoor nurseries, and for use on ornamentals grown for indoor and outdoor landscaping, for control of damping-off, and root and stem rot diseases caused by Pythium and Phytophthora. Quali-Pro Mefenoxam 2 AQ may be applied through irrigation systems, as a soil drench or as a soil surface spray, or incorporated into a soil mix for subsequent seeding or transplanting of ornamentals. Within a rate range given for a specific group of ornamentals, use the lower rate for the shortest interval listed and the higher rate for the longest interval. Under severe disease conditions, use the highest rate and the shortest interval.

For drench applications, use enough of the specified Quali-Pro Mefenoxam 2 AQ water solution to wet the root zone of plants. In general, 1 pt./sq. ft. of this solution is sufficient for ornamentals growing in containers with 4 inches of growth media. Containers with growth media depth greater than 4 inches generally require 1 1/2 - 2 pts/sq ft of the solution. If soil surface applications are made, irrigate with at least 1/2 inch of water if rainfall does not occur within 7 days.

NOTICE TO USER: Due to the large number of species and varieties of ornamentals and nursery plants, it is impossible to test every one for tolerance to Quali-Pro Mefenoxam 2 AQ. Neither the manufacturer nor the seller has determined whether or not Quali-Pro Mefenoxam 2 AQ can be used safely on ornamental and nursery plants not specified on this label. The professional user should determine if Quali-Pro Mefenoxam 2 AQ can be used safely prior to commercial use. In a small area, test the recommended rates for a particular group of unlabeled plants, i.e., bedding plants, foliage, etc., for phytotoxicity prior to widespread use.

Foliage Plants Aglaonema, Aphelandra, Dieffenbachia, Paperonia, Philodendron*, Pothos, Schefflera, Sedum, Sempervivum, Zygocactus	DRENCH: Mix 0.12 - 0.6 fl oz. with 100 gals of water. Apply 1 pt solution per sq ft. For growth media depth greater than 4 inches, apply 1 1/2 - 2 pts solution per sq ft. Repeat applications at 2 to 3-month intervals, if necessary. *On Philodendron, use 0.2 - 1.0 fl oz/100 gals. <i>Precaution: To minimize the potential for injury to Pothos, do not use more than 0.38 fl oz/100 gals and do not apply more frequently than once every 3 months.</i> SOIL MIX: Thoroughly mix 0.06 - 0.26 fl oz with each cu yd of soil mixture. SOIL SURFACE SPRAY: Apply 0.2 - 1.0 fl oz/1,000 sq ft to the soil surface in a broadcast or banded spray in sufficient water to obtain thorough coverage of the plant root zone. After application, irrigate with a minimum of 1/2 inch of water if rainfall does not occur within 7 days.
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Bedding Plants Ageratum, Algerian ivy, Artemisia, Aster, Begonia, Caladium, Carnation, Chrysanthemum, Coleus, Daisy, English ivy, Foxglove, Gaillardia, Geranium, Impatiens, Marigold, Pansy, Petunia, Phlox, Pinks, Primrose, Prostrate Rosemary, Salvia, Snapdragon, Verbena, Vinca, Zinnia	DRENCH At Seeding (Soil 2 - 3 inches deep): Mix 0.06 - 0.26 fl oz with 100 gals of water and apply 1 pt solution per sq ft. DRENCH At Transplanting (Soil 2 - 3 inches deep): Mix 0.2 - 1.0 fl oz with 100 gals of water and apply 1 pt solution per sq ft. For growth media depth greater than 4 inches, apply 1 1/2 - 2 pts solution per sq ft. Repeat applications at 1 to 2-month intervals, if necessary. Do not apply rates of 0.75 - 1.0 fl oz/100 gals more often than once every 6 weeks. SOIL MIX At Seeding and At Transplanting: Thoroughly mix 0.02 - 0.12 fl oz with each cu yd of soil mixture. SOIL SURFACE SPRAY: Apply 0.2 - 1.0 fl oz/1,000 sq ft to the soil surface in a broadcast or banded spray in sufficient water to obtain thorough coverage of the plant root zone. After application, irrigate with a minimum of 1/2 inch of water if rainfall does not occur within 7 days.
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Flowers African violet, Anthurium, Baby's breath, Carnation, Chrysanthemum, Columbine, Delphinium, Easter lily, Geranium, Gloxinia, Poinsettia, Rose	DRENCH: Mix 0.2 - 1.0 fl oz with 100 gals of water and apply 1 pt solution per sq ft. For growth media depth greater than 4 inches, apply 1 1/2 - 2 pts solution per sq ft. Repeat applications at 1 to 2-month intervals, if necessary. Do not apply rates of 0.76 - 1.0 fl oz/100 gals more often than every 6 weeks. <i>Precaution: Do not apply more than 0.5 fl. oz/100 gal water to Easter lily and only make one at-planting application.</i> SOIL SURFACE SPRAY: apply 0.2 - 1.0 fl oz/1,000 sq ft to the soil surface in a broadcast or banded spray in sufficient water to obtain thorough coverage of the plant root zone. After application, irrigate with a minimum of 1/2 inch of water if rainfall does not occur within 7 days.
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Azaleas	<p>DRENCH: Phytophthora root and crown rot – Mix 0.26 – 1.2 fl oz with 100 gals of water and apply 1 pt solution per sq ft. For growth media depth greater than 4 inches, apply 1 1/2 – 2 pts solution per sq ft. Repeat applications at 2 to 4-month intervals, if necessary.</p> <p>SOIL SURFACE SPRAY: Apply 0.5 – 2.5 fl oz/1,000 sq ft to the soil surface in a broadcast or banded spray in sufficient water to obtain thorough coverage of the plant root zone. After application, irrigate with a minimum of 1/2 inch of water if rainfall does not occur within 7 days.</p> <p><i>Precautions: (1) To minimize the potential for injury to azaleas, do not apply repeat soil applications of 1.2 fl. oz./100 gal closer than every 3 months, and do not exceed a total of 2 fl. oz. in 6 months. (2) Use the lower rate for "Coral Bell" variety.</i></p>
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Woody Ornamentals Other Than Azaleas <i>Aucuba japonica, Arborvitae, Boxwood, Ceanothus, Coloneaster, Dogwood, Ficus, "Halls" Honeysuckle, Ilex, Juniperus spp., Photinia, Pieris japonica, Pinus spp., Pittosporum, Rhododendron, White cedar, White pine, Yew</i>	<p>Drench: Mix 0.4 – 2 fl oz with 100 gals of water and apply 1 pt solution per sq ft. For growth media depth greater than 4 inches, apply 1 1/2 – 2 pts solution per sq ft. Repeat applications at 2 to 3-month intervals, if necessary. Do not apply rates of 1.0 fl oz/100 gals more often than every 10 weeks.</p> <p>SOIL SURFACE SPRAY: Apply 0.5 – 2.5 fl oz/1,000 sq ft to the soil surface in a broadcast or banded spray in sufficient water to obtain thorough coverage of the plant root zone. After application, irrigate with a minimum of 1/2 inch of water if rainfall does not occur within 7 days.</p>
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INTERIORESCAPE AND INDIVIDUAL PLANT USE

In situations where water volumes used are much less than 100 gals and the area treated is small, the following table provides the Quali-Pro Mefenoxam 2 AQ rates to make small quantities of solution. Refer to the plant type for the correct fl. oz. of product to use when utilizing this table.

Rate of Quali-Pro Mefenoxam 2 AQ (fl. oz.) /100 gals.	Amount of Quali-Pro Mefenoxam 2 AQ to Add to Water to Make the Following Quantities			
	1 gal.	5 gals.	10 gals.	25 gals.
0.5	2 drops	10 drops	20 drops	50 drops / 1.0 ml
1.0	4 drops	20 drops	40 drops	100 drops / 2 ml
2.0	8 drops	40 drops	80 drops / 1.5 ml	200 drops / 4 ml / 2/3 tsp.
4.0	16 drops	80 drops / 1.5 ml	3 ml / 0.5 tsp.	8 ml / 1 1/3 tsp.

Apply enough solution to wet the root area of the plants.

CITRUS IN NURSERIES (AZ, CA, FL, and PR Only)

Make the first application of Quali-Pro Mefenoxam 2 AQ at the time of planting. Make repeat applications at 3-month intervals during the period when trees are actively growing. For banded applications, use a band wide enough to cover the root systems of the plants. Do not apply Quali-Pro Mefenoxam 2 AQ solutions to bare roots.

Soil Drench: Apply 2 – 3 fl oz/100 gals of water as a drench over the row at a rate of 100 – 250 gals/1,000 ft. of row. The width of the drench treatment should be wide enough to cover the root systems of the plants. Follow with a 1/2 – 1-inch irrigation over the treated area.

Soil Surface Spray: Apply 2 – 4 qts per treated acre in a broadcast or banded surface spray to seedbeds, liners, or bedded stock in sufficient water to obtain thorough coverage. If applications are banded, the treated area should be wide enough to cover the root systems of the plants. Follow the applications with a 1/2 – 1-inch irrigation over the treated area.

Note: Do not use Quali-Pro Mefenoxam 2 AQ for disease control in greenhouse nurseries.

CITRUS IN NURSERIES AND LANDSCAPE PLANTINGS (NONBEARING)

Use Quali-Pro Mefenoxam 2 AQ on nonbearing citrus for control of citrus foot rot, root rot, and trunk canker caused by Phytophthora spp. Apply to the soil as a drench or as a spray in a banded application.

Make the first application of Quali-Pro Mefenoxam 2 AQ at the time of planting. Make repeat applications at 3-month intervals during the period when trees are actively growing.

Soil Drench: Mix 0.6 – 3.0 fl. oz/100 gals of water and apply as a drench over the row at the rate of 100 – 250 gals/1,000 ft. of row. The width of the drench treatment should be wide enough to cover the root systems of the plants.

Soil Surface Spray: Apply 0.2 – 1.0 gal/A of treated soil in a broadcast or banded surface spray to seedbeds, liners, or bedded stock in sufficient water to obtain uniform coverage. If applications are banded, the treated area should be wide enough to cover the root systems of the plants. Follow with 1/2 inch irrigation.

Calculate the amount of Quali-Pro Mefenoxam 2 AQ needed for a banded treatment by using the formula at the end of the APPLICATION INSTRUCTIONS section of this label.

Note: Do not use in greenhouse citrus nursery stock intended for commercial fruit production.

CONIFERS IN NURSERIES AND PLANTATIONS (INCLUDING CHRISTMAS TREES)

Quali-Pro Mefenoxam 2 AQ provides control of Phytophthora root rot of conifers.

Conifers in Nurseries

Seedbeds and Plug-Plantings	Apply 0.25 – 1.25 pt Quali-Pro Mefenoxam 2 AQ in at least 50 gals of water per acre in the spring and again in the fall.
2-0 Transplants	Apply 0.5 – 2.5 pts Quali-Pro Mefenoxam 2 AQ in at least 50 gals of water per acre in the spring and again in the fall.

Conifers in Plantations

Use of Quali-Pro Mefenoxam 2 AQ will aid in the control of Phytophthora root rot when used in conjunction with good cultural practices. The use of Quali-Pro Mefenoxam 2 AQ will not overcome poor management practices such as planting on sites that are prone to flooding or are poorly drained. Quali-Pro Mefenoxam 2 AQ fungicide will not revitalize trees showing moderate to severe disease symptoms.

Apply 0.25 – 1.25 gal of Quali-Pro Mefenoxam 2 AQ per acre in a minimum of 50 gals of water as a directed soil spray. Do not apply as a foliar spray. Applications should be made in early spring before growth starts and in the fall before the ground freezes. Calculate the amount of Quali-Pro Mefenoxam 2 AQ needed for a banded treatment by using the formula in the APPLICATION INSTRUCTIONS section of the label.

For best results, apply 1/2 – 1 inch of water after application if rain is not expected within 3 days.

DECIDUOUS FRUITS AND NUTS IN NURSERIES (NONBEARING)

Quali-Pro Mefenoxam 2 AQ provides control of Pythium root rot and Phytophthora root, crown, and collar rot of nonbearing deciduous fruits and nuts.

Apply 0.6 – 3.0 fl oz/1,000 sq ft in sufficient water to obtain thorough coverage of the soil under the canopy of the trees. Treat sufficient surface area in nurseries to cover the root zone of the plants. Additional applications may be made as necessary at 3-month intervals during the growing season.

Notes: (1) Do not apply to trees that will bear harvestable fruit within 12 months of the last application, or possible illegal residues may result. (2) Do not apply more than 8.8 oz/1,000 sq. ft. (3.0 gals/A) of Quali-Pro Mefenoxam 2 AQ per year.

TURF

Quali-Pro Mefenoxam 2 AQ controls Pythium blight and Pythium damping-off in turf, yellow tuft (downy mildew) in bluegrass, and downy mildew in St. Augustine grass. **Within the rate range given for turf, use the lower rate for the shortest interval listed and the higher rate for the longest interval. Under severe disease conditions, use the highest rate and shortest interval.**

Established Turf Pythium Blight, Yellow Tuft, Downy mildew	Apply as a preventative treatment at 0.2 – 1.0 fl oz in 1-5 gals of water per 1,000 sq. ft. Retreat at 10 to 21-day intervals. During periods of prolonged conditions favorable for disease development, use 0.5 – 1.0 fl oz on a 14-day schedule.
Newly Seeded Areas Pythium Damping-off, Pythium blight, Yellow Tuft, Downy Mildew	Apply 0.2 – 1.0 fl oz in 1-5 gals of water per 1,000 sq ft immediately after seeding. Irrigate with 1/4 – 1/2 inch water. Re-treat at 7 to 14-day intervals if conditions remain favorable for disease. Note: For long-term control of Pythium in areas when using seed treated with the active ingredient contained in Quali-Pro Mefenoxam 2 AQ, make an application of Quali-Pro Mefenoxam 2 AQ at 7 – 10 days after seeding.

Note: For control of other diseases of turf, use Banner alone or in a tank mix combination with Quali-Pro Mefenoxam 2 AQ. Refer to the Banner label for rates, precautions, restrictions, etc.

Precautions: To minimize the potential for insensitivity, (1) Make no more than 3 applications per season of any product in which the Quali-Pro Mefenoxam 2 AQ active ingredient is applied alone, and (2) Apply an alternate EPA-registered fungicide for Pythium control at least once during the season.

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REPLANTING

If replanting is necessary, additional applications of Quali-Pro Mefenoxam 2 AQ may be made, provided that that total amount of active ingredient applied does not exceed the maximum allowed for the specific crop.

ROTATION (PLANTBACK) RESTRICTION

Do not plant any crop which is not registered for use with products containing the active ingredient mefenoxam in soil treated with Quali-Pro Mefenoxam 2 AQ for a period of 12 months unless a shorter interval is specified on the following list.

Rotation Crop	Planting Time From Last Quali-Pro Mefenoxam 2 AQ Application
Alfalfa (including birdsfoot trefoil)	0 days
Almonds	
Apples	
Asparagus	
Avocados	
Blueberries	
Deciduous Fruits and Nuts*	
Eggplant	
Garlic	
Ginseng	
Grapes	0 days
Grasses**	
Hops	
Leafy Vegetables (Excluding Brassica)	
Legume Vegetables (beans and peas—succulent and dried)	
Onions (dry bulb, green, and seed)	
Papaya	
Peanuts	
Peppers	
Pineapples	
Potatoes	

Rotation Crop	Planting Time From Last Quali-Pro Mefenoxam 2 AQ Application
Raspberries	0 days
Root and Tuber Vegetables	
Soybeans	
Spinach	
Stone Fruits	
Strawberries	
Sugar Beets	
Tobacco	
Tomatoes	
Walnuts	
Cereal Grains (other than corn)	14 days
Corn	9 months
Crops Not Intended for Food or Feed	0 days
All Other Crops Intended for Food or Feed	12 months

* These crops and other perennial crops may be planted immediately following last application of Quali-Pro Mefenoxam 2 AQ, provided they will not bear harvestable fruit within 12 months.

** Any grass, Gramineae family (either green or cured), except do not rotate to any of the following for 12 months after application: sugar-cane; any cereal grains that will be fed to or grazed by livestock; any enclosed pasture grass; and grass grown for hay or silage such as bermudagrass, bluegrass, brome grass or fescue.

STORAGE AND DISPOSAL

PESTICIDE STORAGE

Do not use, pour, spill or store near heat or open flame.

PESTICIDE DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Wastes resulting from the use of this product are acutely toxic. Improper disposal of unused pesticide, spray mixture, or rinsate is a violation of federal law. Pesticide, spray mixture, or rinsate that cannot be used according to label instructions must be disposed of according to federal, state, or local procedures. For guidance in proper disposal methods, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office.

CONTAINER DISPOSAL

Do not reuse empty container. Triple rinse (or equivalent) and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or by open burning, if allowed by state and local authorities. If burned, keep out of smoke.

For minor spills, leaks, etc., 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 Chemtrec at 1-800-424-9300, day or night.

IMPORTANT: Read the entire DIRECTIONS FOR USE and the CONDITIONS OF SALE AND WARRANTY before using this product. If terms are not acceptable, return the unopened product container at once.

CONDITIONS OF SALE AND WARRANTY

The DIRECTIONS FOR USE of this product are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of FarmSaver.com, LLC or the seller. All such risks shall be assumed by the buyer.

FarmSaver.com, LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth in the DIRECTIONS FOR USE when it is used in accordance with such directions, subject to the inherent risks mentioned above.

FARMSAVER.COM, LLC NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

THIS WARRANTY EXTENDS TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS, OR CAUTIONS. BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLER'S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR, THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

FARMSAVER.COM, LLC and the seller offer this product, and the Buyer and User accept it, subject to the foregoing CONDITIONS OF SALE AND WARRANTY.

Questions? Call 1-800-979-8994.

Quali-Pro is a trademark of FarmSaver.com
Banner is a trademark of the Syngenta Group Company

FarmSaver.com LLC
PO Box 21365
Seattle, WA 98111

Mef 2L TNO EPA 100504

MATERIAL SAFETY DATA SHEET

Quali-Pro® Mefenoxam 2 AQ

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1. IDENTIFICATION

Product name: **Quali-Pro® Mefenoxam 2 AQ**
 Chemical name of active ingredient(s): Mefenoxam: R-2-[(2,6-dimethylphenyl)-methoxyacetyl-amino]-propionic acid methyl ester
 Manufacturer: FarmSaver.com, LLC.
 4515 Falls of Neuse Road, Suite 300
 Raleigh, NC 27609
 Phone: 1-800-979-8994
 For fire, spill, and/or leak emergencies, contact Chemtrec: Phone: 1-800-424-9300
 Outside US: 1-703-527-3887
 For medical emergencies and health and safety inquiries, contact Prosar: Phone: 1-800-308-5391

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMMON NAME	CAS NO.	%	OSHA PEL	ACGIH TLV	OTHER	NTP/IARC/OSHA (Carcinogen)
Mefenoxam NE=not established NA=not available	70630-17-0	22.5	NE	NE	NA	NA

3. HAZARDS IDENTIFICATIONS

PHYSICAL PROPERTIES

Appearance: Amber liquid
 Odor: Sweet

EMERGENCY OVERVIEW: CAUTION Harmful if absorbed through the skin. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Remove and wash contaminated clothing before reuse.

ROUTES OF ENTRY: Skin and eye contact.

HAZARDOUS DECOMPOSITION PRODUCTS: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

PHYSICAL OR CHEMICAL HAZARDS: Do not use, pour, spill or store near heat or open flame.

MEDICAL CONDITIONS LIKELY TO BE AGGRAVATED BY EXPOSURE: None known.

4. FIRST AID MEASURES

FIRST AID	
IF IN EYES:	<ul style="list-style-type: none"> 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:	<ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of soap and water for 15-20 minutes. Call a poison control center or doctor for treatment advice if irritation persists.
IF SWALLOWED:	<ul style="list-style-type: none"> Call a poison control center or doctor immediately for treatment advice. Have person drink a glass of water or two 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.
Have the product container or label with you when calling a poison control center or doctor or going for treatment. For medical emergencies involving this product, call 1-800-308-5391.	
Note to physician: If ingested, induce emesis or lavage stomach. Treat symptomatically.	

5. FIRE FIGHTING MEASURES

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FLASH POINT: > 200° F (TCC)

FLAMMABLE LIMITS: Not applicable.

EXTINGUISHING MEDIA: Alcohol foam, CO₂, dry chemical.

HAZARDOUS DECOMPOSITION PRODUCTS: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Can decompose at high temperatures causing toxic gases.

FIRE-FIGHTING PROCEDURES: Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Wear self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS/LEAKS: Use proper personal protective equipment. For a small spill, cover with absorbent material like pet litter. Sweep up and place in a container and assure proper disposal. Wash spill area with water containing a strong detergent, absorb with absorbent material and place in container for disposal. Flush area with water to remove residue. Do not allow wash water to contaminate water supplies.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING: Handle and open container in a manner as to prevent spillage. Do not contaminate water, food or feed by storage, disposal or by cleaning equipment. Do not reuse empty container. Open dumping is prohibited. Do not use or store near heat or open flame

PRECAUTIONS TO BE TAKEN IN STORAGE: Store in a cool dry place in such a manner as to prevent cross contamination with other pesticides, fertilizers, food and feed. Do not use or store near heat or open flame. Store in original container and out of reach of children, preferably in a locked storage area.

STORAGE TEMPERATURE (MIN/MAX): Normal ambient temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

EYE PROTECTION: Safety goggles with side shields or goggles

SKIN PROTECTION: Long sleeved shirt, long pants, shoes plus socks and apron to prevent exposure.

HAND PROTECTION: Chemical-resistant gloves.

RESPIRATOR REQUIREMENTS: When needed, based on the conditions of use, wear a NIOSH-approved respirator with purifying cartridge.

ADDITIONAL PROTECTIVE MEASURES: Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this products concentrate. Do not reuse them. 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.

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.

EXPOSURE GUIDELINES: Refer to Section 2.

ENGINEERING CONTROLS: Refer to product label.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Amber liquid

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ODOR: Sweet

FLASH POINT: > 200° F (TCC)

pH: 6 - 8

SOLUBILITY: Miscible

SPECIFIC GRAVITY: 1.07 @ 20° C

VAPOR PRESSURE: 2.5 X 10⁻⁵ @ 25° C

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal use and storage conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

MATERIALS TO AVOID: Not known

HAZARDOUS POLYMERIZATION: Will not occur.

INSTABILITY CONDITIONS: None known.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY/IRRITATION STUDIES

Acute Oral LD50 (Rat):	2,965 mg/kg
Acute Dermal LD50 (Rabbit):	> 5,050 mg/kg
Acute Inhalation LC50 (Rat):	> 2.8 mg/L (4-hr.)
Eye Irritation:	Moderately irritating
Dermal Irritation:	Non-irritating
Dermal Sensitization:	Not a sensitizer

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water when disposing of equipment wash waters or rinsate.

13. DISPOSAL CONSIDERATIONS

END USERS MUST DISPOSE OF ANY UNUSED PRODUCT AS PER THE LABEL RECOMMENDATIONS.

PRODUCT DISPOSAL: Do not contaminate water, food, or feed by disposal. Open dumping is prohibited. Wastes resulting from the use of this product are acutely toxic. Improper disposal of unused pesticide, spray mixture, or rinsate is a violation of federal law. Pesticide, spray mixture or rinsate that cannot be used according to label instructions must be disposed of according to federal, state, or local procedures.

CONTAINER DISPOSAL: Dispose of product containers, waste containers, and residues according to label instructions and local, state, and federal health and environmental regulations.

14. TRANSPORT INFORMATION

DOT CLASSIFICATION:

Not regulated

INTERNATIONAL TRANSPORTATION

IMO (vessel): Not regulated

IATA (air): Not regulated

15. REGULATORY INFORMATION

SARA TITLE III CLASSIFICATION:

Section 302: Not applicable.

Section 311/312: Acute health hazard (immediate)

Section 313: Not applicable

CA PROPOSITION 65: Not applicable

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CERCLA RQ: Not applicable

RCRA CLASSIFICATION: 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.

TSCA STATUS: The ingredients of this product are listed on the TSCA inventory or are exempt.

16. OTHER INFORMATION

NFPA HAZARD RATINGS	NFPA	HMIS		
HEALTH:	1	1	0	MINIMAL
FLAMMABILITY:	1	1	1	SLIGHT
REACTIVITY:	0	0	2	MODERATE
			3	HIGH
			4	SEVERE

MSDS DATE: 2-20-09

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