



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

May 16, 2017

Patricia McFadden  
Registration Manager  
Sipcam Agro USA, Inc.  
2325 Meridian Parkway Suite 350  
Durham, NC 27713

Subject: Label Amendment – Revised sugar beet application rate (me-too)  
Product Name: MINERVA FUNGICIDE  
EPA Registration Number: 60063-12  
Application Date: 1/20/2017  
Decision Number: 525369

Dear Ms. McFadden:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Page 2 of 2  
EPA Reg. No. 60063-12  
Decision No. 525369

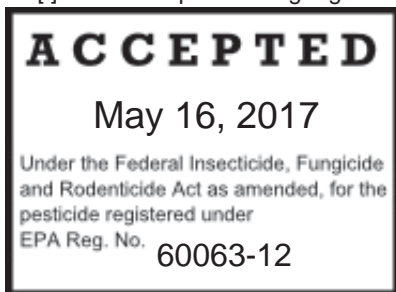
Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Maryam K. Muhammad by phone at 703-347-0301, or via email at [Muhammad.maryam@epa.gov](mailto:Muhammad.maryam@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to be 'HJ', written in a cursive style.

Hope Johnson, Product Manager 21  
Fungicide Branch  
Registration Division (7505P)  
Office of Pesticide Programs

Enclosure



GROUP	3	FUNGICIDE
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## Minerva® Fungicide

**For Control and/or Suppression of the listed diseases in Corn, Crop Subgroup 13-07F (Small fruit vine climbing subgroup, except fuzzy kiwifruit), Crop Subgroup 13-07G (Low growing berry subgroup), Pecans, Peanuts, Soybeans, and Sugarbeet.**

**ACTIVE INGREDIENT:**

Tetraconazole {1-[2-(2,4-dichlorophenyl)-3-(1,1,2,2-tetrafluoroethoxy) propyl]-1*H*-1,2,4-triazole}..... 11.6%

**OTHER INGREDIENTS:** ..... 88.4%

TOTAL ..... 100.0%

Contains 1 lb. active ingredient (tetraconazole) per gallon.

### KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID	
IF SWALLOWED:	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
IF IN EYES	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
Emergency phone numbers	(800) 424-9300 CHEMTREC (transportation and spills) (800) 858-7378 NPIC (human and animal health)

[See additional precautionary statements and directions for use inside booklet.]

[Peel back book here]

[Read label carefully before opening the container]

[Application Type AG Agricultural]

EPA Registration No. 60063-12

[label date code or lot number]

EPA Establishment No. \_\_\_\_\_

[Lot number begins with xxx]

NET CONTENTS: \_\_\_\_\_ [gallons] [gals.] [g] [(\_\_\_\_ liters)]

Manufactured for:  
**SIPCAM AGRO USA, INC.**  
 2525 Meridian Parkway, Suite 350  
 Durham, NC 27713

## **PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION.** Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

### **PERSONAL PROTECTIVE EQUIPMENT (PPE):**

Some materials that are chemical-resistant to this product are barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, polyvinyl chloride (PVC) ≥14 mils, and viton ≥14 mils.

#### **Applicators and other handlers must wear:**

- Long sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves: barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, polyvinyl chloride (PVC) ≥14 mils, and viton ≥14 mils.

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

### **ENGINEERING CONTROLS**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the 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 thoroughly with soap and water after handling and 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.

### **ENVIRONMENTAL HAZARDS**

This product may be toxic to fish and aquatic invertebrates. 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 or runoff from treated areas may be hazardous to aquatic organisms adjacent to treatment areas. Exercise care when making applications of this product, and do not apply when atmospheric conditions favor drift or runoff. Do not contaminate water when disposing of equipment washwaters or rinsate.

In order to mitigate concern for reproductive effects to endangered bird and mammal species which may occur incidentally in sugarbeet growing areas, you are required to ascertain through the state Department of Agriculture, or Cooperative Extension Service, whether the treatment area may contain habitat of federally listed bird and mammal species; if so, treatment must be avoided in these areas.

## **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 instruction 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 for all activities with the exception of 7 days for table grape activities of girdling, cane tying and cane turning, and 20 days for detasseling corn grown for seed. 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, wear:

- Coveralls
- Chemical-resistant gloves
- Shoes plus socks

### **PRODUCT USE INFORMATION:**

Apply Minerva Fungicide in water carrier by spraying onto specified crop surfaces that are to be protected from disease. To obtain adequate coverage of typical agricultural crops, total spray volume usually will range from 20 to 150 gallons per acre (200 to 1400 liters per hectare) for dilute sprays, and 5 to 10 gallons per acre (50 to 100 liters per hectare) for concentrate ground sprays and aircraft applications. Both ground and aircraft methods of application may be used.

Minerva Fungicide should be added to the spray tank while filling with water. Keep the agitator running when filling spray tank and during spray operations. When tank mixing this product with other pesticides, observe the more restrictive label limitations and precautions. Do not exceed any label dosage rates. This product cannot be mixed with any product containing a label prohibition against such mixing. Combination in the spray tank with other pesticides, fertilizers or surfactants is not recommended unless prior use has shown the combination to be physically compatible, effective and non-injurious under your conditions of use. When an adjuvant is to be used with this product, Sipcam Agro USA recommends the use of a Chemical Producers and Distributors Association (CPDA) certified adjuvant.

### **RESISTANCE MANAGEMENT GUIDANCE**

Minerva Fungicide contains a Group 3 fungicide. Fungal isolates with acquired resistance to Group 3 may eventually dominate the fungal population if Group 3 fungicides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by this product or other Group 3 fungicides.

To delay fungicide/bactericide resistance consider:

- Avoiding the consecutive use of this product or other target site of action Group 3 fungicides that have a similar target site of action, on the same pathogens.
- Using tank-mixtures or premixes with fungicide/bactericides from different target site of action

Groups as long as the involved products are all registered for the same use and are both effective at the tank mix or prepack rate on the pathogen(s) of concern.

- Basing fungicide use on a comprehensive IPM program.
- Monitoring treated fungal populations for loss of field efficacy.
- Contacting your local extension specialist, certified crop advisors, and/or Sipcarn representative for fungicide resistance management and/or IPM recommendations for specific crops and resistant pathogens.

### **SPRAY DRIFT MANAGEMENT**

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions. The following drift management requirements must be followed to avoid off-target drift movement from aerial applications 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 outer most nozzles on the boom must not exceed  $\frac{3}{4}$  (75%) the length of the wingspan or rotor.
2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

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

### **AERIAL DRIFT 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 section, Temperature and Humidity section).

### **CONTROLLING DROPLET SIZE**

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

For some use patterns, reducing the effective boom length to less than  $\frac{3}{4}$  (75%) of the wingspan or rotor length may further reduce drift without reducing swath width.

### **APPLICATION HEIGHT**

Applications should not be made at a height greater than 10 feet above the top of the largest plants

unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

### SWATH ADJUSTMENT

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

### WIND

Drift potential is lowest between wind speeds of 2-10 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.

### **CHEMIGATION INSTRUCTIONS**

Apply this product only through one or more of the following types of systems: sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set or hand move irrigation system. 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.

For specific information about calibration, contact State Extension Service specialists, equipment manufacturers, or other irrigation experts.

Do not connect an irrigation 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.

**To prevent the movement of Minerva Fungicide into the soil:**

- Minimize pesticide contact with the soil surface by chemigating above the crop canopy.
- Stop chemigation when pesticide mixture is observed running off crop surfaces or after 0.25 inches of water has been applied, whichever occurs first.
- Allow for sufficient time after chemigation for crop surfaces to dry prior to expected rainfall or to irrigation applied above the crop canopy.

### **Sprinkler Chemigation**

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 check valve to prevent the flow of fluid back toward the injection pump.

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.

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 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.

Do not apply when wind speed favors drift beyond the area intended for treatment.

When mixing, fill nurse tank half full with water. Add Minerva Fungicide slowly to tank while hydraulic or mechanical agitation is operating and continue filling with water. Stickers, spreaders, etc., should be added last. If compatibility is in question, use the compatibility jar test before mixing a whole tank. Because of the wide variety of possible combinations which can be encountered, observe all cautions and limitations on the label of all products used in mixtures.

Minerva Fungicide should be added through a traveling irrigation system continuously or at the last 30 minutes of solid set or hand moved irrigation systems. Agitation is recommended.



### ROTATIONAL CROP RESTRICTIONS

Refer to the table below for the minimum time intervals required between the last application of Minerva Fungicide and a new crop planting.

Crop	Rotational Interval (in days)
Corn	0
Grains, small (barley, buckwheat, millet, oats, rice, rye, triticale and wheat) following a sugarbeet application	40
Grape	0
Peanut	0
Pecan	0
Bearberry, Bilberry, Lowbush Blueberry, Cloudberry, Cranberry, Ligonberry, Muntries, Partridgeberry, Amur River Grape, Gooseberry, Hardy Kiwifruit, Maypop, Schisandra Berry	0
Soybean	0
Strawberry	0
Sugarbeet	0
Sugarcane	45
All other crops – after application to Subgroups 13-07F and 13-07G	15
All other crops – after application to sugarbeet	120
All other crops	120

## AGRICULTURAL CROPS:

<b>CORN (FIELD, POPCORN, CORN GROWN FOR SEED PRODUCTION)</b>		
<b>DISEASES CONTROLLED</b>	<b>RATE PER ACRE</b>	<b>APPLICATION DIRECTIONS</b>
Gray leaf spot ( <i>Cercospora zeae-maydis</i> ) Rust, common ( <i>Puccinia sorghi</i> ) Rust, southern ( <i>Puccinia polysora</i> ) Anthracnose leaf blight ( <i>Colletotrichum graminicola</i> ) Eye spot ( <i>Aureobasidium zeae</i> ) Northern corn leaf blight ( <i>Exserohilum turcicum</i> ) Northern corn leaf spot ( <i>Bipolaris zeicola</i> ) Physoderma brown spot ( <i>Physoderma maydis</i> ) Southern corn leaf blight ( <i>Bipolaris maydis</i> ) Yellow leaf blight* ( <i>Phyllosticta maydis</i> )	7.6-11.4 fl. oz. (0.06 to 0.09 lb a.i.)	This product may be applied early (V4-V8) or late (Vt-R3) prior to disease development. Apply as a curative application when disease incident does not exceed 5% of the plants.  Use this product as part of an integrated pest management program (IPM). Apply as a foliar spray (10 GPA by ground or 2 GPA by air) or via chemigation in sufficient water to obtain thorough coverage of plants.
<b>RESTRICTIONS/LIMITATIONS:</b> <ul style="list-style-type: none"> <li>• Do not apply more than 0.09 lb of tetraconazole a.i. per acre per year. (11.4 fl. oz. product per acre per year.)</li> <li>• Restricted entry interval (REI): 12 hours for all activities with the exception of 20 days for detasseling corn.</li> <li>• Do not make more than one (1) application per year.</li> <li>• Do not apply this product after corn growth stage R3 (brown silk/milk).</li> <li>• Do not use adjuvants in sprays made between V8 (8 leaf collar) and VT (lowest branch of the tassel visible but silks have not emerged) growth stage.</li> <li>• A compatibility agent, another fungicide, or an insecticide approved for use on corn may be included, if needed. The use directions and restrictions of the added product must be followed. Always follow the more restrictive label.</li> <li>• Apply this product by ground in a minimum 10 gallons per acre or by air in a minimum 2 gallons per acre.</li> </ul> * Not for use in California on Yellow leaf blight.		
<b>TANK MIX INFORMATION:</b> Always read and follow all label directions when using any pesticide alone or in a tankmix. The most restrictive label language applies when tank mixing this product with another.  The following corn pesticides can be used in a tank mixture with this product, if the label does not prohibit tank mixing : Callisto®, Halex® GR, Laudis®, Lexar®, Liberty®/LibertyLink®, Lumax®, Roundup®/Roundup Ready®, Yukon®, Headline®, Quadris®, Asana®, Baythroid®, Lorsban®, Mustang Max®, Orthene®, Pounce®, Proaxis®, Warrior®, Oneger®.		

CROP SUBGROUP 13-07F (AMUR RIVER GRAPE, GOOSEBERRY, GRAPE, HARDY KIWIFRUIT, MAYPOP, SCHISANDRA BERRY, CULTIVARS, VARIETIES AND/OR HYBRIDS OF THESE)		
GRAPE		
DISEASES CONTROLLED	RATE PER ACRE	APPLICATION DIRECTIONS
Powdery Mildew ( <i>Erysiphe</i> spp.)	3.0 – 5.0 fl. oz. (0.023-0.04 lb a.i.)	Start application at pre-flowering stage, when shoots are 12 – 18 inches. Repeat applications at 21 day interval under low disease pressure. Reduce interval to 14 days when disease pressure is high and conditions are favorable to Powdery Mildew outbreak.
Anthracnose ( <i>Elsinoe</i> spp.)		Start applications when new shoots are 1 to 3 inch long and continue on a 14 day interval.
Black Rot ( <i>Guignardia</i> spp.)		Apply preventively. First treatment when new shoots are 1 to 3 inch long and continue at 14 day intervals. Use the higher specified rate under heavy disease pressure. In case of heavy disease pressure and shorter application interval, apply in alternation with fungicide with a different mode of action.
Vine diseases following pruning: ( <i>Botryosphaeria rhodina</i> , <i>Eutypalata</i> , <i>Phaeoacremonium aleophilum</i> , <i>Phaeomoniella chlamydospora</i> )	5.0 fl. oz. (0.04 lb a.i.)	<p>Do not exceed 2 applications per year.                      Apply this product in 25 to 50 gallons of water per acre.                      Apply this product within 24 hours of pruning. A second application is recommended around 14 days later if rainfall or high humidity continues, which contributes to weather conditions favorable for disease development.</p> <p>If double pruning is being performed, application does not need to be made after the first pruning, if environmental conditions do not favor infection and disease development beyond where the final pruning cuts will occur. Under this scenario, apply this product within 24 hours of making the second pruning cuts. The second application of should be applied 14 days after the first application when rainfall and high humidity are in favor of infection and disease development. In case of high risk of infection and fast disease development, resulting in development of disease into tissue past where the second pruning cuts will be made, apply this product after the first non-selective pruning cuts followed by a second treatment after the second and final pruning cuts are made.</p> <p>It is highly recommended to apply this product with a spray dye to visually ensure full coverage of the pruning cuts and susceptible tissue.</p>
<b>RESTRICTIONS/LIMITATIONS:</b>		
<ul style="list-style-type: none"> <li>Do not apply more than 0.08 lb of tetraconazole per acre per year (10 fl.oz. product per acre per year)</li> <li>Pre Harvest Interval: Do not apply within 14 days of harvest.</li> <li>Restricted entry interval (REI): 12 hours for all activities except 7 days for table grape activities of girdling, cane tying and cane turning.</li> <li>Do not make more than three (3) applications of this product per year, except for vine diseases following pruning. Do not make more than 2 applications of this product per year for vine diseases following pruning.</li> </ul>		

<b>GOOSEBERRIES</b>		
<b>DISEASES CONTROLLED</b>	<b>RATE PER ACRE</b>	<b>APPLICATION DIRECTIONS</b>
Powdery Mildew ( <i>Sphaerotheca</i> spp.)	3.0 – 5.0 fl. oz. (0.023-0.04 lb a.i.)	Start application at pre-flowering stage, repeat applications at 14 day interval. Apply in alternation with fungicide with a different mode of action when more than 2 applications are needed.
Anthraco nose ( <i>Drepanopeziza</i> spp.)		Start application when the first leaf unfolds and replicate on a 10 to 14 day spray interval when conditions are favorable to disease development.
<b>RESTRICTIONS/LIMITATIONS:</b>		
<ul style="list-style-type: none"> <li>• Do not apply more than 0.08 lb of tetraconazole a.i. per acre per year (10 fl. oz. product per acre per year).</li> <li>• Pre Harvest Interval: Do not apply within 14 days of harvest.</li> <li>• Restricted entry interval (REI): 12 hours</li> <li>• Do not make more than three (3) applications of this product per year.</li> </ul>		
<b>AMUR RIVER GRAPE; KIWIFRUIT, HARDY; MAYPOP; SCHISANDRA BERRY; CULTIVARS, VARIETIES, AND/OR HYBRIDS OF THESE</b>		
<b>DISEASES CONTROLLED</b>	<b>RATE PER ACRE</b>	<b>APPLICATION DIRECTIONS</b>
Powdery Mildew ( <i>Erysiphe</i> spp., <i>Sphaerotheca</i> spp.)	3.0 – 5.0 fl. oz. (0.023-0.04 lb a.i.)	Start applications when conditions are favorable to disease development and repeat on a 14 day interval.
<b>RESTRICTIONS/LIMITATIONS:</b>		
<ul style="list-style-type: none"> <li>• Do not apply more than 0.08 lb of tetraconazole a.i. per acre per year (10 fl. oz. product per acre per year).</li> <li>• Pre Harvest interval: 14 days.</li> <li>• Restricted entry interval (REI): 12 hours</li> <li>• Do not make more than three (3) applications of this product per year.</li> </ul>		

**CROP SUBGROUP 13-07G (BEARBERRY, BILBERRY, LOWBUSH BLUEBERRY, CLOUDBERRY, CRANBERRY, LIGONBERRY, MUNTRIES, PARTRIDGEBERRY, STRAWBERRY, CULTIVARS, VARIETIES AND/OR HYBRIDS OF THESE)**

**LOWBUSH BLUEBERRY, BEARBERRY, BILBERRY, CLOUDBERRY, CRANBERRY, LINGONBERRY, MUNTRIES, PARTRIDGE BERRY, CULTIVARS, VARIETIES, AND/OR HYBRIDS OF THESE.**

DISEASES CONTROLLED	RATE PER ACRE	APPLICATION DIRECTIONS
Powdery Mildew ( <i>Oidium</i> spp., <i>Sphaerotheca</i> spp., <i>Microsphaera</i> spp.)	3.0 – 5.0 fl. oz. (0.023-0.04 lb a.i.)	Start applications when conditions are favorable to disease development and repeat on a 14 day interval.

- RESTRICTIONS/LIMITATIONS:**
- Do not apply more than 0.16 lb of tetraconazole a.i. per acre per year (20 fl. oz. product per acre per year).
  - Pre Harvest interval: 0 days
  - Restricted entry interval (REI): 12 hours
  - Do not make more than four (4) applications of this product per year.

**STRAWBERRY**

DISEASES CONTROLLED	RATE PER ACRE	APPLICATION DIRECTIONS
Powdery Mildew ( <i>Podosphaera aphanis</i> ) Leaf Blight ( <i>Phomopsis</i> spp.) Leaf Spot ( <i>Mycosphaerella</i> spp.)	3.0 – 5.0 fl. oz. (0.023-0.04 lb a.i.)	Apply this product preventively, before disease outbreak, when conditions are favorable to disease development. Apply the higher specified rate and reduce interval to 14 days when conditions are favorable to high disease pressure and when growing prone varieties. Ground application: apply this product in a sufficient water to assure full coverage of vines and fruit. Aerial application: minimum of 10 gallons of spray suspension per acre by aircraft, assuring full coverage of vines and fruit.

- RESTRICTIONS/LIMITATIONS:**
- Do not apply more than 0.16 lb of tetraconazole a.i. per acre per year (20 fl. oz. product per acre per year).
  - Pre Harvest interval: 0 days
  - Restricted entry interval (REI): 12 hours
  - Do not make more than four (4) applications of this product per year.

PEANUTS		
DISEASES CONTROLLED	RATE PER ACRE	APPLICATION DIRECTIONS
Early leafspot Late leafspot Web blotch Rust	7.6-13.0 fl. oz. (0.06-0.102 lb a.i.)	Apply this product at intervals of 14 days, beginning when conditions become favorable for disease, generally around 30 days after planting.  Applications of Minerva Fungicide should be alternated with a non-triazole fungicide which is registered for use on peanuts. If the alternate fungicide is known to provide protection for up to 14 days, applications of this product should be no longer than 28 days apart.
<b>RESTRICTIONS/LIMITATIONS:</b> <ul style="list-style-type: none"> <li>Do not apply more than 0.40 lb of tetraconazole ai per acre per year (52 fl. oz. product per acre per year).</li> <li>Pre Harvest interval: 14 days before digging</li> <li>Restricted entry interval (REI): 12 hours</li> <li>Do not make more than four (4) applications of this product per year.</li> <li>Do not feed treated peanut hay or threshings from treated fields to livestock.</li> <li>Do not allow livestock to graze in treated areas.</li> </ul>		

PECANS		
DISEASES CONTROLLED	RATE PER ACRE	APPLICATION DIRECTIONS
Scab Downy spot, Leaf blotch ( <i>Mycosphaerella spp.</i> ) Vein spot and/or Leafspot ( <i>Gnomonia spp.</i> ) Leaf scorch Powdery mildew	16 fl. oz. (0.125 lb a.i.)	Apply this product in adequate water to provide complete coverage. Spray volumes of at least 100 gallons per acre should be used for ground applications and at least 10 gallons per acre for aerial applications. Apply this product at intervals of 14 to 21 days, beginning when conditions are favorable for scab or other foliage and nut hull diseases. Applications of this product may be alternated or tank mixed with a non-triazole fungicide which is registered for use on pecans.
<b>RESTRICTIONS/LIMITATIONS:</b> <ul style="list-style-type: none"> <li>Do not apply more than 0.50 lb of tetraconazole a.i. per acre per year (64 fl. oz. product per acre per year).</li> <li>Pre Harvest interval: 30 days</li> <li>Restricted entry interval (REI): 12 hours</li> <li>Do not make more than four (4) applications of this product per year.</li> <li>Do not apply after shucks split.</li> <li>Do not graze livestock or feed cover crops grown in treated areas to livestock.</li> </ul>		

<b>SOYBEANS</b>		
<b>DISEASES CONTROLLED</b>	<b>RATE PER ACRE</b>	<b>APPLICATION DIRECTIONS</b>
Asian Soybean Rust <i>(Phakopsora pachyrhizi)</i> Cercospora Blight <i>(Cercospora kikuchii)</i> Purple Seed Stain <i>(Cercospora kikuchii)</i> Frogeye Leaf Spot <i>(Cercospora sojina)</i> White Mold/Sclerotinia Stem Rot ( <i>Sclerotinia sclerotiorum</i> ) Powdery Mildew <i>(Microsphaera diffusa)</i> Brown Spot ( <i>Septoria glycines</i> ) Anthracnose ( <i>Colletotrichum</i> spp.)	7.6-9.5 fl. oz. (0.06-0.075 lb a.i.)	Use this product as part of an integrated pest management program (IPM).  <b>Asian Soybean Rust:</b> Apply this product before disease development when rust infections are likely to occur. If necessary, make a second application before growth stage R-6.  <b>All Other Soybean Diseases:</b> Apply this product at soybean growth stage R-1 (early pod fill) or when conditions are favorable for disease development. Repeat the application 15 to 21 days after first application under heavy disease pressure. Use the higher specified rate and shorter spray intervals for severe disease conditions. Make curative applications when disease incidence does not exceed 5% of the soybean plants at time of application.
<b>RESTRICTIONS/LIMITATIONS:</b> <ul style="list-style-type: none"> <li>• Do not apply more than 0.15 lb of tetraconazole a.i. per acre per year (19 fl. oz. product per acre per year).</li> <li>• Restricted entry interval (REI): 12 hours</li> <li>• Do not make more than two (2) applications per year.</li> <li>• Do not graze or feed treated forage or hay to livestock.</li> <li>• Do not apply after soybean growth stage R5 (beginning seed).</li> <li>• Do not harvest immature soybeans for consumption once plants are treated.</li> <li>• Do not use on vegetable soybean varieties grown for their immature pods.</li> <li>• Apply this product by ground in a minimum 10 gallons per acre, by air in a minimum 2 gallons per acre (5 gallons per acre for white mold and Asian soybean rust) or by chemigation in sufficient water to obtain thorough coverage of soybeans.</li> </ul>		
<b>TANK MIX INFORMATION:</b> Always read and follow all label directions when using any pesticide alone or in a tankmix. The most restrictive label language applies when tank mixing this product with another.  The following soybean pesticides can be used in a tank mixture with this product, if their label does not prohibit tank mixing : Liberty®/LibertyLink®, Roundup®/Roundup Ready®, Targa®, Headline®, Quadris®, Asana®, Baythroid®, Justice®, Lorsban®, Mustang Max®, Orthene®, Pounce®, Proaxis®, and Warrior®.		

<b>SUGARBEETS</b>		
<b>DISEASES CONTROLLED</b>	<b>RATE PER ACRE</b>	<b>APPLICATION DIRECTIONS</b>
<p>Cercospora leafspot                      Powdery Mildew                      Ramularia</p>	<p>13 fl. oz.                      (0.102 lb a.i.)</p>	<p>Apply this product when conditions are favorable for Cercospora leafspot or powdery mildew.</p> <p>To obtain adequate coverage of typical agricultural crops, total spray volume ranges from 20-150 gallons per acre for dilute sprays, and 5-10 gallons per acre for concentrated ground sprays and aircraft applications.</p> <p>Include Minerva Fungicide in an IPM program, alternating fungicides with different modes of action. Do not make more than one application of Minerva before alternating with fungicides with a mode of action other than DMI Group 3.</p>
<p><b>RESTRICTIONS/LIMITATIONS:</b></p> <ul style="list-style-type: none"> <li>• Do not apply more than 0.203 lb of tetraconazole a.i. per acre per year (26.0 fl. oz. product per acre per year).</li> <li>• Do not reapply within 21 days (retreatment interval) of the initial application.</li> <li>• Do not make more than two (2) applications of this product per year.</li> <li>• Pre Harvest interval: 14 days</li> <li>• Restricted entry interval (REI): 12 hours</li> </ul>		



## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in original container in a dry, temperature-controlled, secure place.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product must be disposed of on-site or at an approved waste disposal facility.

**CONTAINER HANDLING:** For containers equal to or less than 5 gallons: Nonrefillable container. Do not reuse or refill this container. Triple rinse container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available, 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.

For containers greater than 5 gallons: Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container promptly after emptying.

Triple rinse as follow: Empty the remaining contents into application equipment or a mix tank. Fill the container  $\frac{1}{4}$  full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available 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.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or a mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**[For bulk and mini-bulk containers [such as ~4000 gal. tanker truck and ~260 gal. totes.]]** Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

When the container is empty, replace the cap and seal all openings that have been opened during use; and return to the point of purchase, or to a designated location named at the time of purchase of this product. 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. Do not transport if this container is damaged or leaking. If the container is damaged or leaking, call Chem-Trec. If the container is damaged and leaking or material has been spilled, follow these procedures:

- Cover spill with absorbent material.
- Sweep into disposal container.
- Wash area with detergent and water and follow with clean water rinse.
- Do not allow to contaminate water supplies.
- Dispose of according to instructions in the Pesticide Disposal section above.

If not returned to the point of purchase or to a designated location, clean empty container as instructed above and offer for recycling. Disposal of this container must be in compliance with state and local regulations.

**THIS CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER.**

## WARRANTY AND LIMITATION OF DAMAGES

Conditions of sale: To the extent consistent with applicable law, Sipcam Agro USA, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in accordance with the directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions, or under conditions not reasonably foreseeable to Sipcam Agro USA, Inc. SIPCAM AGRO USA, INC. DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. To the extent consistent with applicable law, SIPCAM AGRO USA, INC. SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, AND SIPCAM AGRO USA, INC.'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE. BUYER AND USER ACKNOWLEDGE AND ASSUME ALL RISKS AND LIABILITY RESULTING FROM HANDLING, STORAGE AND USE OF THIS PRODUCT. SIPCAM AGRO USA, INC. DOES NOT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTY, GUARANTEE OR REPRESENTATION CONCERNING THIS PRODUCT.

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Minerva Fungicide (60063-12) (Revised 04-27-2017)



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