



We create chemistry

Mefentrifluconazole

Group

3

Fungicide

SPECIMEN

# Provysol™

## Fungicide

† For disease control in beans and peas, citrus, cucurbit vegetables, fruiting vegetables, peanut, rapeseed (canola), sugar beet, sugarcane, and tuberous and corm vegetables (including potato)

† See **Detailed Use Directions** for detailed crop listings.

**Active Ingredient\*:**

mefentrifluconazole: 2-[4-(4-chlorophenoxy)-2-(trifluoromethyl)phenyl]-1-(1H-1,2,4-triazole-1-yl)propan-2-ol . . . . . 34.93%

**Other Ingredients:** . . . . . 65.07%

**Total:** . . . . . 100.00%

\* **Provysol™ fungicide** contains 3.34 lbs mefentrifluconazole per gallon.

**EPA Reg. No. 7969-411**

**EPA Est. No.**

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION/PRECAUTION**

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

See full label for complete **First Aid, Precautionary Statements, Directions For Use, Conditions of Sale and Warranty**, and state-specific crop and/or use site restrictions.

**In case of an emergency endangering life or property involving this product, call day or night 1-800-832-HELP (4357).**

**Net Contents:**

BASF Corporation  
26 Davis Drive, Research Triangle Park, NC 27709

FIRST AID	
<b>If swallowed</b>	<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>• <b>DO NOT</b> induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• <b>DO NOT</b> give anything by mouth to an unconscious person.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably by mouth to mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eyes open and rinse slowly and gently with water for 15 to 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>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).	

## Precautionary Statements

### Hazards to Humans and Domestic Animals

**CAUTION.** Harmful if swallowed. Avoid contact with skin, eyes, or clothing. Harmful if inhaled. Avoid breathing spray mist. Causes moderate eye irritation. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

### Personal Protective Equipment (PPE)

#### Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves (barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, or viton ≥ 14 mils)
- Shoes plus socks

Follow the manufacturer's instructions for cleaning and 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/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove clothing/PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

### Environmental Hazards

This pesticide is toxic to fish and aquatic invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

**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 washwater or rinsate.

This product may impact surface water quality because of runoff of rainwater. This is especially true for poorly draining soils and soils with shallow groundwater.

### Groundwater Advisory

This chemical has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

### Surface Water Advisory

This product is classified as having high potential for reaching aquatic sediment via runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. A level, well-maintained vegetative buffer strip between areas to which this product is applied

and surface water features such as ponds, streams, and springs will reduce the potential loading of this active ingredient or its degradates from runoff water and sediment. Runoff of this product will be reduced by avoiding application when rainfall is forecast to occur within 48 hours.

Sound erosion control practices will reduce this product's potential to reach aquatic sediment via runoff.

Directions For Use

It is a violation of federal law to use this product in a manner inconsistent with its labeling. This labeling must be in the user's possession during application. Read the entire **Directions For Use** and **Conditions of Sale and Warranty** before using this product.

Use Restrictions

- **DO NOT** use in greenhouse production.
- **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.
- **Provysol™ fungicide** is not for sale, distribution, or use in **Nassau and Suffolk counties in New York State**.

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), restricted-entry interval, and notification to workers. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

**DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of **12 hours**.

**EXCEPTION:** If the product is soil injected or soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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

- Coveralls
- Chemical-resistant gloves (made of any waterproof material)
- Shoes plus socks

STORAGE AND DISPOSAL

**DO NOT** contaminate water, food, or feed by storage or disposal.

Pesticide Storage

Store in original containers only. Keep container closed when not in use. **DO NOT** store near food or feed.

Pesticide Disposal

Wastes resulting from using this product may be disposed of on-site or at an approved waste disposal facility. If these wastes cannot be disposed of according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representatives at the nearest EPA Regional Office for guidance.

Container Handling

**Nonrefillable Container. DO NOT** reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

**Triple rinse containers small enough to shake (capacity ≤ 5 gallons) as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**Triple rinse containers too large to shake (capacity > 5 gallons) as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times.

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

(continued)

## STORAGE AND DISPOSAL *(continued)*

### Container Handling *(continued)*

**Refillable Container.** Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

**Triple rinse as follows:** 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% 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 this container is empty, replace the cap and seal all openings that have been opened during use; return the container to the point of purchase or to a designated location. This container must only be refilled with a pesticide 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 transport. **DO NOT** transport if this container is damaged or leaking. If the container is damaged, or leaking, or obsolete and not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling, if available, or dispose of container in compliance with state and local regulations.

## In Case of Emergency

In case of large-scale spill of this product, call:

- CHEMTREC 1-800-424-9300
- BASF Corporation 1-800-832-HELP (4357)

In case of medical emergency regarding this product, call:

- Your local doctor for immediate treatment
- Your local poison control center (hospital)
- BASF Corporation 1-800-832-HELP (4357)

### Steps to take if material is released or spilled:

- In case of spill on floor or paved surfaces, mop and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to label.
- Dike and contain the spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal.
- Remove contaminated clothing and wash affected skin areas with soap and water.
- Wash clothing before reuse.
- Keep the spill out of all sewers and open bodies of water.

## Product Information

**Provysol™ fungicide** is a broad-spectrum fungicide containing the active ingredient mefentrifluconazole for use in beans and peas, citrus, cucurbit vegetables, fruiting vegetables, peanut, rapeseed (canola), sugar beet, sugarcane, and tuberous and corm vegetables (including potato). For optimum disease control, apply **Provysol™ fungicide** in a regularly scheduled protective spray program and use in a rotation program with **non-Group 3** fungicides.

## Mode of Action

Mefentrifluconazole, the active ingredient in **Provysol™ fungicide**, inhibits the demethylation step of sterol biosynthesis (DMI), which disrupts cell membrane synthesis and is classified by the Fungicide Resistance Action Committee (FRAC) as a **Group 3** fungicide.

## Resistance Management

For resistance management, **Provysol™ fungicide** contains a **Group 3** fungicide. Any fungal population may contain individuals naturally resistant to **Provysol™ fungicide** and other **Group 3** fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

### To delay fungicide resistance, take one or more of the following steps:

- Rotate the use of **Provysol™ fungicide** or other **Group 3** fungicides within a growing season sequence with different groups that control the same pathogens.
- Use tank mixtures with fungicides from a different group that are equally effective on the target pest when such use is permitted. Use at least the minimum application rate as labeled by the manufacturer.
- Adopt an integrated disease management program for fungicide use that includes scouting, uses historical information related to pesticide use, and crop rotation, and which considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.
- Where possible, make use of predictive disease models to effectively time fungicide applications. Note that using predictive models alone is not sufficient to manage resistance.
- Monitor treatment area for lack of biological efficacy that might indicate possible resistance development.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance-management and/or **Integrated Pest Management (IPM)** recommendations for specific crops and pathogens.
- For further information or to report suspected resistance consult your local BASF representative, extension specialist, or certified crop advisor.

## Application Instructions

- Thorough and uniform coverage is required for optimum performance.
- **Provysol™ fungicide** can be applied by ground or air, and through field sprinkler irrigation (chemigation) systems.
- **Provysol™ fungicide** can be applied through field sprinkler irrigation (chemigation) systems except on sugarcane.
- **DO NOT** apply this product to sugarcane through any type of irrigation system.
- Application equipment, including injection systems, must be cleaned thoroughly before and after applying this product, particularly if a product with the potential to injure crops was used before application of **Provysol™ fungicide**. Flush system with clean water.

## Ground Application

- Use a minimum of 10 gallons of water per acre to ensure uniform and thorough canopy penetration and coverage of foliage, bloom, and fruit.
- Complete coverage of the stem all the way down to soil level is required for suppression of soilborne diseases of the stem.

**Provysol™ fungicide** label rates specify the amount of product to apply uniformly over an acre of ground on a broadcast basis. **Provysol™ fungicide** may be banded over rows or plant beds with alleys or row middles left unsprayed. For these uses, reduce rates of **Provysol™ fungicide** in proportion to the area sprayed to avoid application at higher than labeled use rates.

### Calculate the broadcast-equivalent rate for banded application:

$$\begin{array}{rcccl} \text{sprayed bed} & & \text{unsprayed row} & & \text{total row} \\ \text{width} & + & \text{middles width} & = & \text{width} \\ \\ \frac{\text{sprayed bed} & & & & \\ \text{width in inches}}{\text{total row}} & \times & \text{broadcast rate} & = & \text{band rate} \\ \text{width in inches} & & \text{per acre} & & \text{per acre} \end{array}$$

**EXAMPLE:** Banded application to 45-inch plant beds separated by 15-inches of unsprayed row middles based on a broadcast rate of 4 ozs/A:

$$\begin{array}{rcccl} 45 \text{ inches} & & 15 \text{ inches} & & 60 \text{ inches} \\ \text{sprayed} & + & \text{unsprayed} & = & \text{total} \\ \text{bed width} & & \text{row middles width} & & \text{row width} \\ \\ \frac{45 \text{ inches} & & & & \\ \text{sprayed} & & & & \\ \text{bed width}}{60 \text{ inches}} & \times & 4 \text{ fl ozs} & = & 3 \text{ fl ozs} \\ & & \text{Provysol™} & & \text{Provysol™} \\ & & \text{fungicide} & & \text{fungicide} \\ & & \text{per acre} & & \text{per acre} \end{array}$$

## Aerial Application

- **Minimum spray volume per acre:** 2 gallons of spray solution per acre, unless otherwise specified in the **Detailed Use Directions** section.
- **DO NOT** apply in spray solutions less than 50% water by volume. Reduced spray volumes used in aerial application may result in physical incompatibility, reduced disease control, or crop injury particularly when mixed with other products.

## Field Sprinkler Irrigation (Chemigation) Application

- Apply this product only through field sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. **DO NOT** apply this product through any other type of irrigation system.
- **Provysol™ fungicide** can be applied through field sprinkler irrigation (chemigation) systems except on sugarcane.
- **DO NOT** apply when wind speed favors drift beyond the area intended for treatment.
- Add **Provysol™ fungicide** to the pesticide supply tank containing sufficient water to maintain a continuous flow by the injection equipment. In continuous moving systems, inject this product-water mixture continuously, applying the labeled rate per acre for that crop. **DO NOT** apply more than 1/2 inch (13,577 gallons) per acre. In stationary or non-continuous moving systems, inject the product-water mixture in the last 15 to 30 minutes of each set, allowing enough time to apply the crop-specific labeled rate per acre through the sprinkler heads. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water. Uniform and thorough coverage of foliage is required for control. Maintain constant agitation throughout mixing and application.
- If you have questions about calibration, you should contact state extension service specialists, equipment manufacturers, or other experts.
- 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 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 a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials compatible with pesticides and capable of being fitted with a system interlock.
- Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. 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 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.

## 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. **DO NOT** apply when wind speed favors drift beyond the area intended for treatment.

## Spray Drift Management

**DO NOT** apply when conditions favor drift beyond the intended (target) application area. Drift-reduction measures include:

1. **DO NOT** apply if wind speed is 15 mph or more. Use caution when applying if nontarget crops are downwind and wind is present. **DO NOT** apply if winds are gusty.
2. Apply only when the potential for drift to adjacent sensitive areas (e.g. bodies of water or nontarget crops) is minimal and when wind is blowing away from sensitive areas.
3. Use caution when conditions are favorable for drift (drought, high temperatures, low relative humidity).
4. **DO NOT** apply during a temperature inversion. Consult local weather services before applying if conditions are favorable for inversion.

## Tank Mixing Other Products and Additives

**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.**

**Provysol™ fungicide** can be tank mixed with other fungicides, insecticides, herbicides, liquid fertilizers, biological control products, adjuvants, and additives. Always follow the most restrictive label use directions. See the **Detailed Use Directions** section for additional crop-specific information.

BASF has not tested all varieties and cultivars with all possible tank mix combinations and rates of additives or adjuvants. Local environmental conditions can also influence crop tolerance and may not match those under which BASF has conducted testing. Physical incompatibility, reduced disease control, or injury may result from mixing **Provysol™ fungicide** with other products.

To minimize the likelihood of injury, before using any tank mix previously listed, test the combination on a small portion of the crop to be treated to ensure a phytotoxic response will not occur as a result of application. However, environmental variability precludes direct and consistent projection of small area test results to future use.

When an adjuvant is used with this product, BASF recommends the use of a Chemical Producers and Distributors Association certified adjuvant.

Consult a BASF representative or local agricultural authorities for more information on use of additives or adjuvants with this product.

## Compatibility Test

Before mixing components, always perform a compatibility jar test.

1. Add components in the order listed in **Mixing Order** instructions.
  - **For 10 gallons per acre spray volume:** Start with 1 pint (2 cups) of water from the intended source at the source temperature.
  - **For other spray volumes:** Adjust rates accordingly.
  - **Dry product:** Add 2 teaspoons per pound of product per acre.
  - **Liquid product:** Add 1 teaspoon per pint of product per acre.
2. Always cap the jar and invert 10 cycles after component additions.
3. When the components have all been added to the jar, let the solution stand for 15 minutes.
4. **Evaluate** the solution for uniformity and stability. The spray solution should not have free oil on the surface, fine particles that precipitate to the bottom, or thick (clabbered) texture. **DO NOT** use any spray solution that could clog spray nozzles.

## Mixing Order

Make sure each component is thoroughly mixed and suspended before adding tank mix partners. Except when mixing products in PVA bags, maintain constant agitation during mixing and application.

1. **Water** - Fill a thoroughly clean sprayer tank 3/4 full of clean water and begin agitation.
2. **Inductor** - If an inductor is used, rinse it thoroughly after each component has been added.
3. **Products in PVA bags** - Place any product contained in water-soluble PVA bags into the mixing tank. Wait until all water-soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.
4. **Water-dispersible products** (such as dry flowables, wettable powders, suspension concentrates including **Provysol™ fungicide**, or suspo-emulsions)
  - **Containers 5 gallons or less: Shake well before adding to the tank.**
  - **Containers more than 5 gallons: Recirculate before adding to the tank.**
  - Consult a BASF representative for additional information regarding agitation and recirculation.
5. **Water-soluble products**
6. **Emulsifiable concentrates** (such as oil concentrates when applicable)
7. **Water-soluble additives** [such as ammonium sulfate (AMS) or urea ammonium nitrate (UAN) when applicable]
8. **Remaining quantity of water**

## Crop Rotation Restrictions

**Rotational Crops:** Please see the following table for crop rotational restrictions.

Crop or Crop Group	Rotation Interval
Brassicas including broccoli, cauliflower and head cabbages (crop group 5-16) Bulb vegetables including bulb onion, spring onion and garlic (crop group 3-07) Cereals, including wheat, oats, barley, triticale, rye, rice and corn (crop group 15 and crop group 16) Cucurbits including cucumber, squash and melons (crop group 9) Fruiting vegetables including tomato, eggplant, peppers (crop group 8-10) Fresh herbs Grass and non-grass animal feeds including alfalfa and clover (crop group 17 and crop group 18) Leafy vegetables including lettuces, spinach and leafy cabbages (crop group 4-16) Legume vegetables including soybean (crop group 6 and crop group 7) Low-growing berries including strawberries (crop group 13-07G) Oilseeds including cotton, sunflower and canola (crop group 20) Peanut Root and tuber vegetables including carrot, potato, beets and sugar beet (crop group 1 and crop group 2) Stalk, stem and leaf petiole vegetables including celery and asparagus (crop group 22) Sugarcane Any other crop labeled for direct application of a product containing mefentrifluconazole	May be planted immediately following the last application
Other food and feed crops, not listed above	May not be planted in rotation

## Detailed Use Directions

### Labeled Crops

The specified maximum product rate per acre per year includes a combination of infurrow and foliar applications.

Infurrow	<ul style="list-style-type: none"><li>• If the field has a history of soilborne/seedling diseases or disease pressure is expected to be high:<ul style="list-style-type: none"><li>- Use the 5 fl ozs per acre rate and/or tank mix with a fungicide having a different mode of action.</li></ul></li><li>• Use a minimum volume of application of 2.5 gallons of water per acre.</li><li>• For infurrow sugarcane see <b>SUGARCANE ONLY Infurrow and Soil-directed Banded Rates.</b></li></ul>	Rate per 1000 Row Feet (fl ozs product)	Rate per Acre (fl ozs product)								
		15" rows	20" rows	22" rows	30" rows	32" rows	34" rows	36" rows	38" rows	40" rows	
		0.08	2.8	2.1	1.9	1.4	1.3	1.3			
		0.12	4.2	3.1	2.9	2.1	2.0	1.8	1.7	1.7	1.6
		0.16		4.2	3.8	2.8	2.6	2.5	2.3	2.2	2.1
		0.20			4.8	3.5	3.3	3.1	2.9	2.8	2.6
		0.24				4.2	3.9	3.7	3.5	3.3	3.1
		0.28				4.9	4.6	4.3	4.1	3.9	3.7
		0.32						4.9	4.7	4.4	4.2
		0.36								5.0	4.7
		0.40								5.0	
Foliar	<ul style="list-style-type: none"><li>• When conditions favor disease or disease pressure is high:<ul style="list-style-type: none"><li>- Use the shorter specified interval.</li><li>- For a rate range, use the higher specified rate.</li></ul></li><li>• <b>DO NOT</b> make more than two (2) sequential applications of <b>Provysol™ fungicide</b> before alternating to a labeled <b>non-Group 3</b> fungicide.</li></ul>										

### Use Rate Conversion

fl ozs product/A	lb mefentrifluconazole/A
3	0.08
3.5	0.09
4	0.10
5	0.13
7	0.18
10	0.26
15	0.39
21	0.54

**State-specific Restrictions** - Not for sale, distribution, or use in **Nassau and Suffolk counties in New York State.**



## Citrus †

Disease Controlled		Rate per Acre (fl ozs product) per application	Rate per Acre (fl ozs product) maximum per year	PHI (days)
Foliar	Alternaria brown spot <i>Alternaria citri</i>	4 to 5	15	0
	Anthracnose <i>Colletotrichum acutatum</i> , <i>C. gloeosporioides</i>			
	Blackspot <i>Guignardia citricarpa</i>			
	Greasy spot <i>Mycosphaerella citri</i>			
	Melanose <i>Diaporthe citri</i>			
	Postbloom fruit drop <i>Colletotrichum acutatum</i>			
	Scab <i>Elsinoe fawcettii</i>			
	<ul style="list-style-type: none"><li>• <b>Spray Interval</b> - Apply at 14-day to 21-day intervals.</li></ul>			

### † State-specific Restrictions - Not registered for use in California.

#### Use Restrictions

- **DO NOT** apply more than 5 fl ozs (0.13 lb mefentrifluconazole) per acre per application.
- **DO NOT** make more than 3 applications at 5 fl ozs per acre per year.
- **DO NOT** apply more than 15 fl ozs (0.39 lb mefentrifluconazole) per acre per year.
- **DO NOT** apply more than a cumulative total of 0.39 lb ai/acre/year of mefentrifluconazole-containing products.
- **Aerial Application - DO NOT** use less than 10 gallons of spray solution per acre.

**Detailed Citrus (subgroups 10-10A, 10-10B, 10-10C) Crop List** - calamondin; citron; citrus hybrids; grapefruit (grapefruit, Japanese summer); kumquat; lemon; lime (lime, Australian desert, Australian finger, Australian round, Brown River finger, Mount White, New Guinea wild, Russell River, sweet, Tahiti); mandarin (Mediterranean, satsuma); orange (sour, sweet, tachibana, trifoliata); pummelo; tangelo; tangerine (mandarin); tangor; uniq fruit; cultivars, varieties, and/or hybrids of these.

## Cucurbit Vegetables †

Disease Controlled		Rate per Acre (fl ozs product) per application	Rate per Acre (fl ozs product) maximum per year	PHI (days)
Foliar	Gummy stem blight <sup>†</sup> <i>Didymella bryoniae</i>	3 to 5	15	0
	Powdery mildew <sup>†</sup> <i>Erysiphe</i> spp., <i>Podosphaera</i> spp., <i>Sphaerotheca</i> spp.			
	• <b>Spray Interval</b> - Apply before onset of disease and on a minimum interval of 7 days.			

† State-specific Restrictions - Not registered for use in California.

### Use Restrictions

- **DO NOT** apply more than 5 fl ozs (0.13 lb mefentrifluconazole) per acre per application.
- **DO NOT** make more than 3 applications at 5 fl ozs per acre per year.
- **DO NOT** apply more than 15 fl ozs (0.39 lb mefentrifluconazole) per acre per year.
- **DO NOT** apply more than a cumulative total of 0.39 lb ai/acre/year of mefentrifluconazole-containing products.

**Detailed (crop group 9) Crop List** - chayote (fruit); Chinese waxgourd (Chinese preserving melon); citron melon; cucumber; gherkin; gourd, edible (includes hyotan, cucuzza, hechima, Chinese okra); *Momordica* spp (includes balsam apple, balsam pear, bittermelon, Chinese cucumber); muskmelon (includes true canteloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon); pumpkin; squash, summer (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini); squash, winter (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash); watermelon.

## Fruiting Vegetables <sup>†</sup>

Disease Controlled		Rate per Acre (fl ozs product) per application	Rate per Acre (fl ozs product) maximum per year	PHI (days)
Foliar	Anthrachnose <sup>†</sup> <i>Colletotrichum coccodes</i>	3 to 5	15	0
	Black mold <sup>†</sup> <i>Alternaria alternata</i>			
	Early blight <sup>†</sup> <i>Alternaria solani</i>			
	Powdery mildew <sup>†</sup> <i>Leveillula taurica</i> , <i>Oidiopsis taurica</i>			
	<ul style="list-style-type: none"><li>• <b>Spray Interval</b> - Apply before onset of disease and on a minimum interval of 7 days.</li></ul>			

<sup>†</sup> **State-specific Restrictions - Not registered for use in California.**

### Use Restrictions

- **DO NOT** apply more than 5 fl ozs (0.13 lb mefentrifluconazole) per acre per application.
- **DO NOT** make more than 3 applications at 5 fl ozs per acre per year.
- **DO NOT** apply more than 15 fl ozs (0.39 lb mefentrifluconazole) per acre per year.
- **DO NOT** apply more than a cumulative total of 0.39 lb ai/acre/year of mefentrifluconazole-containing products.

**Detailed Fruiting Vegetables (crop group 8-10) Crop List** - African eggplant; bush tomato; bell pepper; cocona; currant tomato; eggplant; garden huckleberry; goji berry; groundcherry; martynia; naranjilla; okra; pea eggplant; pepino; non-bell pepper; roselle; scarlet eggplant; sunberry; tomatillo; tomato; tree tomato; cultivars, varieties, and/or hybrids of these.

**Legume Vegetables (crop group 6) †**  
**(except soybean and edamame)**

Disease Controlled		Rate per Acre (fl ozs product) per application	Rate per Acre (fl ozs product) maximum per year	PHI (days)
Foliar	Alternaria leaf and pod spot <i>Alternaria</i> spp.	2.5 to 5	15	21
	Ascochyta blight <i>Ascochyta</i> spp., <i>Phoma exigua</i>			
	Asian soybean rust <i>Phakopsora pachyrhizi</i>			
	Cercospora leaf spot <i>Cercospora</i> spp.			
	Mycosphaerella blight <i>Mycosphaerella</i> spp.			
	Powdery mildew <i>Erysiphe polygoni</i>			
	Rust <i>Uromyces appendiculatus</i>			
	<b>• Spray Interval</b> - Apply at 7-day to 14-day intervals.			

† State-specific Restrictions - Not registered for use in California.

**Use Restrictions**

- **DO NOT** apply more than 5 fl ozs (0.13 lb mefentrifluconazole) per acre per application.
- **DO NOT** make more than 3 applications at 5 fl ozs per acre per year.
- **DO NOT** apply more than 15 fl ozs (0.39 lb mefentrifluconazole) per acre per year.
- **DO NOT** apply more than a cumulative total of 0.39 lb ai/acre/year of mefentrifluconazole-containing products.

**Detailed Legume Vegetables (crop group 6) Crop List** (except soybean and edamame; see **Soybean and Edamame** detailed use directions)

- broad bean (fava bean), chickpea (garbanzo bean), guar, jackbean, lablab bean, lentil, pigeon pea, sword bean.
- **Lupinus spp.:** grain lupin, sweet lupin, white lupin, white sweet lupin.
- **Phaseolus spp.:** field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean.
- **Vigna spp.:** adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, yardlong bean.
- **Pisum spp.:** dwarf pea, edible-pod pea, English pea, field pea, garden pea, green pea, snow pea, sugar snap pea.

## Peanut †

Disease Controlled		Rate per Acre (fl ozs product) per application	Rate per Acre (fl ozs product) maximum per year	PHI (days)
Foliar	Early leaf spot <i>Cercospora arachidicola</i> , <i>Passalora arachidicola</i>	2.5 to 7	21	14
	Late leaf spot <i>Cercosporidium personatum</i> , <i>Nothopassalora personata</i>			
	Rust <i>Puccinia arachidis</i>			
	* Rhizoctonia limb rot, Peg rot, Pod rot <i>Rhizoctonia solani</i>  * Sclerotium rot, Southern blight, Southern stem rot, White mold <i>Sclerotium rolfsii</i>	5 to 7		
<b>• Spray Interval</b> - Early leaf spot, Late leaf spot: Apply at 14-day to 21-day intervals. - Rhizoctonia rot, Sclerotium rot: Apply at 14-day to 28-day intervals. - Use the higher rate and/or shorter spray interval in fields with a history of disease.				

### \* Suppression only

† State-specific Restrictions - Not registered for use in California.

#### Use Restrictions

- **DO NOT** apply more than 7 fl ozs (0.18 lb mefentrifluconazole) per acre per application.
- **DO NOT** make more than 3 applications at 7 fl ozs per acre per year.
- **DO NOT** apply more than 21 fl ozs (0.54 lb mefentrifluconazole) per acre per year.
- **DO NOT** apply more than a cumulative total of 0.54 lb ai/acre/year of mefentrifluconazole-containing products.



## Rapeseed (canola) †

Disease Controlled		Rate per Acre (fl ozs product) per application	Rate per Acre (fl ozs product) maximum per year	PHI (days)
Foliar	Blackleg <i>Leptosphaeria maculans</i>	2.5 to 5	10	21
	Blackspot <i>Alternaria</i> spp.			
	• <b>Spray Interval</b> - Apply at 14-day intervals. - Blackleg: Apply at 2-leaf to 4-leaf stage. - Blackspot: Apply at early pod development.			

### † State-specific Restrictions - Not registered for use in California.

#### Use Restrictions

- **DO NOT** apply more than 5 fl ozs (0.13 lb mefentrifluconazole) per acre per application.
- **DO NOT** make more than 2 applications at 5 fl ozs per acre per year.
- **DO NOT** apply more than 10 fl ozs (0.26 lb mefentrifluconazole) per acre per year.
- **DO NOT** apply more than a cumulative total of 0.26 lb ai/acre/year of mefentrifluconazole-containing products.

**Detailed Rapeseed (subgroup 20A) Crop List** - borage; crambe; cuphea; echium; flax seed; gold of pleasure; hare's ear mustard; lesquerella; lunaria; meadowfoam; milkweed; mustard seed; oil radish; poppy seed; rapeseed; sesame; sweet rocket; cultivars, varieties, and/or hybrids of these.

## Sugar Beet <sup>†</sup>

Disease Controlled		Rate per Acre (fl ozs product) per application	Rate per Acre (fl ozs product) maximum per year	PHI (days)
Foliar	Cercospora leaf spot <i>Cercospora beticola</i>	2.5 to 5	10	7
	* Powdery mildew <i>Erysiphe betae</i> , <i>Erysiphe polygoni</i>			
	• <b>Spray Interval</b> - Apply at 14-day intervals.			

\* **Suppression only**

<sup>†</sup> **State-specific Restrictions - Not registered for use in California.**

### Use Restrictions

- **DO NOT** apply more than 5 fl ozs (0.13 lb mefentrifluconazole) per acre per application.
- **DO NOT** make more than 2 applications at 5 fl ozs per acre per year.
- **DO NOT** apply more than 10 fl ozs (0.26 lb mefentrifluconazole) per acre per year.
- **DO NOT** apply more than a cumulative total of 0.26 lb ai/acre/year of mefentrifluconazole-containing products.

## Sugarcane <sup>†</sup>

Disease Controlled		Rate per Acre (fl ozs product) per application	Rate per Acre (fl ozs product) maximum per year	PHI (days)
Infurrow	Sugarcane pineapple disease <i>Ceratocystis paradoxa</i>	4 to 5	10	14
	Rhizoctonia seed and seedling rot <i>Rhizoctonia solani</i>			
	* Fusarium seed rot, Seedling blight <i>Fusarium</i> spp.			

\* Suppression only

<sup>†</sup> State-specific Restrictions - Not registered for use in California.

### Use Restrictions

- **DO NOT** apply more than 5 fl ozs (0.13 lb mefentrifluconazole) per acre per application.
- **DO NOT** make more than 2 applications at 5 fl ozs per acre per year.
- **DO NOT** apply more than 10 fl ozs (0.26 lb mefentrifluconazole) per acre per year.
- **DO NOT** apply more than a cumulative total of 0.26 lb ai/acre/year of mefentrifluconazole-containing products.
- **DO NOT apply this product to sugarcane through any type of irrigation system.**
- **DO NOT feed treated sugarcane commodities to livestock.**

### SUGARCANE ONLY Infurrow and Soil-directed Banded Rates

Rate per 1000 Row Feet (fl oz product)	Product Rate (fl ozs/A) Row width (feet)	
	5 feet	6 feet
0.46	4.0	
0.55		4.0
0.57	5.0	
0.69		5.0

## Tuberous and Corm Vegetables (including potato - subgroup 1C) †

Disease Controlled		Rate per Acre (fl ozs product) per application	Rate per Acre (fl ozs product) maximum per year	PHI (days)
Foliar	Black dot <i>Colletotrichum coccodes</i>	3 to 5	15	7
	Brown spot, Black pit <i>Alternaria alternata</i>			
	Early blight <i>Alternaria solani</i>			
	<ul style="list-style-type: none"><li>• <b>Spray Interval</b> - Apply at 7-day to 14-day intervals.</li></ul>			

† State-specific Restrictions - Not registered for use in California.

### Use Restrictions

- **DO NOT** apply more than 5 fl ozs (0.13 lb mefentrifluconazole) per acre per application.
- **DO NOT** make more than 3 applications at 5 fl ozs per acre per year.
- **DO NOT** apply more than 15 fl ozs (0.39 lb mefentrifluconazole) per acre per year.
- **DO NOT** apply more than a cumulative total of 0.39 lb ai/acre/year of mefentrifluconazole-containing products.

**Detailed Tuberous and Corm Vegetables (subgroup 1C) Crop List** - arracacha; arrowroot; artichoke, Chinese; artichoke, Jerusalem; canna, edible; cassava, bitter and sweet; chayote (root); chufa; dasheen (taro); ginger; leren; potato; sweet potato; tanier; turmeric; yam bean; yam, true.

## Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as 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 BASF CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above.

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BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

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