

# Maxtima®

## Fungicide

**For disease control in turfgrass in nonresidential areas**

**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%

\* **Maxtima® fungicide** contains 3.34 lbs mefentrifluconazole per gallon.

**EPA Reg. No. 7969-404**

**EPA Est. No.**

**KEEP OUT OF REACH OF CHILDREN  
CAUTION/PRECAUCION**

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 inside 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:**

<b>FIRST AID</b>	
<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>
<b>HOTLINE NUMBER</b>	
<p>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).</p>	

## 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. **A 10 foot buffer strip is required in Florida and New York.** 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.

**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.

**Maxtima® fungicide** is not for sale, distribution, or use in **Nassau and Suffolk counties in New York State except under a Special Local Need (24c) label.**

### 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**.

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

**Maxtima® fungicide** is a broad-spectrum fungicide containing the active ingredient mefentrifluconazole for use in turfgrass in nonresidential areas. For optimum disease control, apply **Maxtima® 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 **Maxtima® 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, **Maxtima® fungicide** contains a **Group 3** fungicide. Any fungal population may contain individuals naturally resistant to **Maxtima® 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 treatment areas. Appropriate resistance-management strategies should be followed.

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

- Rotate the use of **Maxtima® 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.

## Use Sites

### Turfgrass

- Golf courses
  - tees, greens, fairways, roughs
  - naturalized areas on golf courses
- Cemeteries
- Commercial and industrial sites
- Sod farms

## Application Instructions

- Begin **Maxtima® fungicide** applications preventively (before onset or in the early stages of disease) and continue throughout the season following specified intervals and resistance management guidelines.
- For optimal disease control, apply **Maxtima® fungicide** in a preventive disease management program.
- Use the shorter specified interval and/or higher specified rate when conditions favor disease.
- Thorough and uniform coverage is required for optimal disease control.
- Application equipment must be cleaned thoroughly before and after applying this product, particularly if a product with the potential for injury was used before application of **Maxtima® fungicide**. **Nutra-Sol®** and **Neutralize™** tank cleaners can be used to remove residues before and after **Maxtima® fungicide** application. Flush system with clean water.

## Restrictions

- **DO NOT** use on residential turfgrass.
- **DO NOT** use on athletic fields.
- **DO NOT** apply through any type of irrigation equipment.
- Aerial application is prohibited for turf uses.
- **DO NOT** apply to greenhouse grown turf.
- **DO NOT** apply when treatment area is under stress from heat, cold, drought, or other conditions that could affect efficacy.
- Before large-scale use, apply the specified rate of **Maxtima® fungicide** on a small test area under expected growing conditions. Monitor for turfgrass injury for 14 days after application.

## Dilution Table

Rate <b>Maxtima® fungicide</b> (fl oz/ 1000 sq ft)	Rate <b>Maxtima® fungicide</b> (fl ozs/ acre)	Spray Volume per 1000 sq ft			
		(mL per 1 gallon)	(mL per 2 gallons)	(mL per 3 gallons)	(mL per 4 gallons)
0.2	8.6	0.06	0.12	0.18	0.24
0.4	17.1	0.12	0.24	0.36	0.48
0.6	25.7	0.18	0.36	0.54	0.72
0.8	35	0.24	0.48	0.72	0.96

## Ground Application

- **Maxtima® fungicide** may be applied by ground sprayers including tractor groundboom, backpack/handboom, handwand, etc.
- Adjust spray volume and application equipment for uniform and thorough coverage.
- Apply **Maxtima® fungicide** in 1 to 4 gallons of water per 1000 sq ft (44 to 174 gallons per acre) unless higher spray volumes are specified for the disease.
- For maximum efficacy under heavy disease pressure or on higher cuts of turf, apply 2 to 4 gallons of water per 1000 sq ft.

## 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 10 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.**

**Maxtima® fungicide** can be tank mixed with other fungicides, herbicides, liquid fertilizers, biological control products, adjuvants, and additives. Always follow the most restrictive label use directions.

## Tank Mixing Precautions

Physical incompatibility, reduced disease control, or injury may result from mixing **Maxtima® fungicide** with other products.

Mixing partners (products including stickers, extenders, wetting agents, spray adjuvants) are typically not necessary for use with **Maxtima® fungicide**; however, when such products are used, ensure they are labeled for use on turfgrass as appropriate. 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 turfgrass authority for more information on use of additives or adjuvants with this product.

## Compatibility Test for Tank Mix Components

Before mixing components, always perform a compatibility jar test.

1. Add components in the order listed in **Mixing Order** instructions.
  - **For 100 gallons per acre spray volume:** Start with 16 cups (1 gallon) 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 **Maxtima® 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**

Use Rate Conversion	
fl ozs product/A	lbs mefentrifluconazole/A
8.6	0.22
17.1	0.45
25.7	0.67
35.0	0.91

# Turfgrass

Disease Controlled		Rate (fl oz product) per 1000 sq ft	Rate (fl ozs product) per acre	Application Interval (days)
Apply Preventively When Conditions Favor Disease	Anthracnose <i>Colletotrichum graminicola</i>	0.4 to 0.6	17.1 to 25.7	14
	Brown ring patch (formerly known as Waitea patch) <sup>1</sup> <i>Rhizoctonia circinata</i> var. <i>circinata</i>	0.6	25.7	
	Dollar spot <i>Clarireedia homoeocarpa</i> , <i>Clarireedia</i> spp. (formerly known as <i>Sclerotinia homoeocarpa</i> )	0.2 to 0.4	8.6 to 17.1	14 to 28
	† Fairy ring <sup>1</sup> Various <i>Basidiomycete fungi</i>	0.8	35	28
	Root Rot of warm season turfgrasses (formerly known as Bermudagrass decline) <sup>2</sup> <i>Gaeumannomyces graminis</i> var. <i>graminis</i>			
Take-all patch <sup>2</sup> <i>Gaeumannomyces graminis</i> var. <i>avenae</i>				
Spring dead spot <sup>3</sup> <i>Ophiosphaerella</i> spp., <i>O. herpotricha</i> , <i>O. korrae</i>	0.6 to 0.8	25.7 to 35		
<p><sup>1</sup> Apply 0.25-inch of irrigation following application; including a soil wetting agent prior to or at application can improve product movement downward and into contact with <i>Basidiomycete fungi</i>. A sequential application is recommended during healing of fairy ring symptoms.</p> <p><sup>2</sup> Make 2 applications in fall and 2 applications in spring targeting 55°F soil temperature. Product rotations must follow applicable labels and should target the pathogen. Apply 0.25 inches irrigation following application.</p> <p><sup>3</sup> Make 2 applications in fall (targeting 70°F soil temperature) or one application followed by a combination product containing fluxapyroxad and pyraclostrobin.</p>				
Apply in Spring	Summer patch <i>Magnaporthiopsis poae</i>	0.8	35	21 to 28
	Apply when soil temperatures reach 60°F to 65°F at a 2-inch depth or per local recommendation. Use shorter interval when conditions favor disease.			

(continued)

## Turfgrass

(continued)

### State-specific Restrictions

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

† Not for use in California.

**DO NOT** make more than two (2) sequential applications of **Maxtima® fungicide** before alternating to a labeled **non-Group 3** fungicide.

**DO NOT** apply more than 35 fl ozs (0.91 lb mefentrifluconazole) per acre per application (0.8 fl oz per 1000 sq ft).

**DO NOT** exceed 2 applications per acre per year at the 35 fl ozs or 25.7 fl ozs rates. **DO NOT** exceed 4 applications per acre per year at the 17.1 fl ozs per acre rate. **DO NOT** exceed 8 applications per acre per year at the 8.6 fl ozs rate (for dollar spot control only).

**DO NOT** apply more than 70 fl ozs (1.83 lbs of mefentrifluconazole) per acre per year.

**DO NOT** apply more than a cumulative total of 1.83 lbs ai/acre/year of mefentrifluconazole-containing products.



## 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. Plant 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.

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.**

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S EXCLUSIVE REMEDY AND BASF'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT.**

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, EXEMPLARY, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.**

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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007969-00404.20200428.**NVA 2020-04-552-0036**

Based on: NVA 2019-04-552-0135

Supersedes: NVA 2019-04-552-0110

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We create chemistry