TORQUE™ FUNGICIDE

For control of listed diseases on ornamentals and golf courses.

ACTIVE INGREDIENT:
Tebuconazole: 2-(4-chlorophenyl)ethoxy(1,1-dimethyl ethyl)-1-H-1,2,4-triazole-1-ethanol 38.7%
OTHER INGREDIENTS: 61.3%
TOTAL: 100.0%

Contains 3.6 pounds Tebuconazole per gallon

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE BOOKLET FOR ADDITIONAL PRECAUTIONARY STATEMENTS

FIRST AID

IF SWALLOWED:
• Call a poison control center or doctor immediately for treatment advice.
• Have person sip a glass of water if able to swallow.
• Do not induce vomiting unless told to do so by the poison control center or doctor.
• Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING:
• Take off contaminated clothing.
• Rinse skin immediately with plenty of water for 15 - 20 minutes.
• Call a poison control center or doctor for treatment advice.

IF IN EYES:
• Hold eye open and rinse slowly and gently with water for 15 - 20 minutes.
• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
• Call a poison control center or doctor for treatment advice.

IF INHALED:
• More person to fresh air.
• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
• Call a poison control center or doctor for further treatment advice.

Note to Physician: No specific antidote. Treat symptomatically. The compound does not cause any definite symptoms that would be diagnostic. Contact with the eyes may cause irritation.

For chemical emergency: spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300.

EPA Reg. No. 1001-87

Manufactured for:
CLEARY CHEMICALS, LLC
170 Ridge Rd, Suite A
Dayton, NJ 08815-1501

EMERGENCY TELEPHONE #: Chemtrec 800-424-9300
MSDS Number: 4145-001 Issue Date: 03.04.10
NDA = No Data Available NA = Not Applicable

file: S2732-1_book.ai
folder: S2732-1_H Bertrand 226076-90
colors: black, 300
dp proofed_
PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin, eyes, and clothing. Avoid breathing vapor or spray mist.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

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

Applicators and other handlers must wear:
• Long-sleeved shirt and long pants
• Chemical-resistant gloves, such as barrier laminate, or butyl rubber or nitrile rubber or neoprene rubber or polyvinyl chloride or Viton
• Shoes or socks

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.

USER SAFETY RECOMMENDATIONS

Users should:
• Wash 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.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to mammals, 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 and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment, washwater or runoff.

Ground Water Advisory: Tebuconazole is known to leach through soil into ground water under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground-water contamination.

Surface Water Advisory: This product may contaminate water through drift of spray in wind. This product has a high potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to runoff that contains this product. A level, well maintained vegetable buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from rainfall runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted within 48 hours.

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 people, 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.

TORQUE™ Fungicide

ORAL TOXICITY:
LD₅₀ (male rat) = 3,776 mg/kg
LD₅₀ (female rat) = 3,770 mg/kg

INHALATION TOXICITY:
LC₅₀ (4 hrs) (male/female rats) = 2.5 mg/L air

Chronic Toxicity: Tebuconazole caused liver, spleen, adrenal and/or eye effects at high doses in rats and dogs.

Carcinogenicity: No significant carcinogenic risk is posed for human exposure. Tebuconazole is identified by EPA as a Group C (possible human carcinogen) based on selected animal studies. Liver tumors in mice were seen only at a dose exceeding a Maximum Tolerated Dose (MTD). Not listed by IARC, NTP, OSHA, or NIOSH.

Reproductive Toxicity: Not considered a primary reproductive toxicant in rats. Reproductive effects were observed at the highest concentration but were considered secondary to maternal toxicity.

Developmental Toxicity: Not considered a primary developmental toxicant in lab animals. Developmental effects were observed only at doses that caused maternal toxicity.

Neurotoxicity: Tebuconazole caused only transient neurobehavioral effects in acute, subchronic and/or developmental neurotoxicity studies in rats.

Mutagenicity: Negative

SECTION 12: ECOLOGICAL INFORMATION

Environmental Fate and Distribution: Koc = 800-1291 with all detections found in upper 10cm of soil profile. Not predicted to be a threat to groundwater. Moderate biodegradation with soil half life of 51-128 days. Stable in water (pH 5-9).

Aquatic Organism Toxicity (based on technical material):
Rainbow Trout LC₅₀ (96-hr) = 4.4 ppm
Bluegill Lethal LC₅₀ (96-hr) = 5.7 ppm
Opossum Shrimp LC₅₀ (96-hr) = 0.49 ppm

Avian Toxicity (based on technical material):
Mallard Duck-1-day LC₅₀ >4115 ppm

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: End users must dispose of any unused product per the label recommendations and in accordance with all applicable laws and regulations. Check governmental regulations and local authorities for approved disposal of this material. Preferred method of disposal is by incineration.

SECTION 14: TRANSPORT INFORMATION

D.O.T. Shipping Name: Insecticides or Fungicides, N.O.I.; other than poison

Technical Shipping Name: NA

Packing Group: NA

D.O.T. Hazard Class: Not regulated for domestic surface shipment

UN/NA, Number: UN3301

Product RO (Rbs): NA

D.O.T. Label: NA

D.O.T. Placard: NA

EMERGENCY TELEPHONE #: Chemtree 800-624-3200

MSDS Number: 4148-001 Issue Date: 03-94-10

NDA = No Data Available NA = Not Applicable
**TORQUE™ Fungicide**

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance and Physical State</td>
<td>Crystal-like</td>
</tr>
<tr>
<td>Odor</td>
<td>Chalk-like odor</td>
</tr>
<tr>
<td>pH</td>
<td>7.9</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>NA</td>
</tr>
<tr>
<td>Melting Point</td>
<td>105-140°F</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>23°F</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>0.05 mm Hg</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>NA</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.32 @ 20°C</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>NA</td>
</tr>
<tr>
<td>Solubility (active ingredient)</td>
<td>0.03 g/l @ 20°C</td>
</tr>
<tr>
<td>Solubility (other ingredients)</td>
<td>Water: 0.002, Hexane: 0.1, Toluene: 50-100, 2-propanol: 100-300</td>
</tr>
<tr>
<td>Octanol/Water Partition Coefficient</td>
<td>Log P = 3.7 @ 20°C</td>
</tr>
<tr>
<td>Percent Solids by Weight</td>
<td>38.3</td>
</tr>
<tr>
<td>Percent Volatile</td>
<td>NA</td>
</tr>
<tr>
<td>Volatile Organic Compounds</td>
<td>NA</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>ND</td>
</tr>
<tr>
<td>Viscosity</td>
<td>800 - 1000 CPS</td>
</tr>
</tbody>
</table>

**SECTION 10: STABILITY AND REACTIVITY**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Stability</td>
<td>Stable under normal use and storage conditions, avoid freezing and prolonged exposure to direct sunlight.</td>
</tr>
<tr>
<td>Hazardous Polymerization</td>
<td>Stable under normal conditions</td>
</tr>
<tr>
<td>Flash Point</td>
<td>NA</td>
</tr>
<tr>
<td>Ignition Temperature</td>
<td>&gt; 95.4°C / 20°F</td>
</tr>
<tr>
<td>Autoignition</td>
<td>&gt; 45°C / 761°F</td>
</tr>
<tr>
<td>Incompatibility with Other Materials</td>
<td>ND</td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
<td>Thermal decomposition can lead to release of Nitrogen oxides, Carbon monoxide, Hydrogen cyanide, or Hydrogen chloride.</td>
</tr>
</tbody>
</table>

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Acute:**
- Eye Irritation: minimally irritating (rabbis)
- Skin Irritation: slight irritation (rabbits)
- Skin Sensitization: Non-sensitizing (guinea pigs)
- Dermal Toxicity: LD₅₀ (male/female rats) > 2,000 mg/kg

**EMERGENCY TELEPHONE:** Chemtrec 800-424-9300

**NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box only apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Turf and Landscape Uses: Keep children and pets out of treated areas until sprays have dried.

**GENERAL INFORMATION**

Read the entire Directions for Use and Conditions of Sale before using this product.

Chemigation: Do not apply this product through any type of irrigation system.

**OBSERVE THE FOLLOWING PRECAUTIONS WHEN SPRAYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES, RESERVOIRS, RIVERS, PERMANENT STREAMS, MARSHES OR NATURAL PONDS, AND ESTUARIES**

- Do not apply within 100 feet of aquatic areas listed above.
- Do not cultivate within 10 feet of an aquatic area to allow growth of a vegetation filter strip.
- See Spray Drift Management section for further information.

**SPRAY DRIFT MANAGEMENT**

Make ground application when wind velocity favors on-target product deposition (approximately 3 to 10 mph). Do not apply when wind velocity exceeds 15 mph. Avoid applications when wind gusts approach 15 mph. Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.

Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of spray drift to aquatic areas. Avoid spraying during conditions of low humidity and/or...
high temperatures. Do not make ground applications during temperature inversions. Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

Spray Volume:
For best results Torque™ Fungicide may be applied in 66-132 gallons of water per acre for turf using ground based equipment. For ornamentals, 50-300 gallons of finished spray per acre are recommended depending upon equipment, plant species and plant growth stage at time of application. For the most effective results, equipment calibration should be checked regularly. When using lower spray volumes, be sure to maintain uniform application and full crop coverage so as to ensure effective control. Increase spray volume to ensure proper application, if required.

Compatibility Test for Mix Components:
Before mixing components, always perform a compatibility jar test. For 66 gallons per acre spray volume, use 6 cups of water in a clean, clean mixing jar. For other spray volumes adjust accordingly. Only use water from the intended source at the source temperature. Add components in the sequence indicated below in Mixing Order using 3 teaspoons for each pound of dry product or 1 1/2 teaspoons for each pint of liquid product of recommended label rate per acre. Always cap the jar and invert 10 cycles between component additions. When the components have all been added to the jar and fully mixed, let the solution stand for 15 minutes. Evaluate the solution for uniformity and stability. The spray solution should not have free oil on the surface, nor clumps of spray that precipitate to the bottom. If the spray solution is not compatible, repeat the compatibility test with the addition of a suitable compatibility agent and use the compatibility agent as directed on its label.

Mixing:
Continuous agitation is required during mixing. When mixing this product and water, use the specified application rates as listed on each product label. Before combining any other substances with the mixture, ensure that the Torque™ Fungicide is completely dispersed in the mixture.

Recommended Mixing Procedure:
1. Water. Add three-quarters of the required volume to a thoroughly clean sprayer tank.
2. Agitation. Start agitation and maintain constant agitation throughout mixing and application.
3. Inductor. If an inductor is used, rinse it thoroughly after each component has been added.
4. Products in PVA Bags. Place any product contained in water solubles 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.
5. Water Dispersable Products. Thoroughly disperse the material in the water solubles PVA bags.
7. Enzyme concentrates (such as oil concentrates when applicable).
8. Water-soluble additives (such as AMS or UAN when applicable).
9. Remaining quantity of water.

SECTION 5: FIRE FIGHTING MEASURES

Flammable Limits in Air (% by volume):

<table>
<thead>
<tr>
<th>Lower</th>
<th>Upper</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Flash Point:

<table>
<thead>
<tr>
<th>Method Used</th>
<th>Lower</th>
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</thead>
<tbody>
<tr>
<td>N/A</td>
<td></td>
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</tbody>
</table>

Auto-Ignition Temperature:

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<thead>
<tr>
<th>Method Used</th>
<th>Lower</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

Flammability:

<table>
<thead>
<tr>
<th>Flammability</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

Extinguishing Media:

<table>
<thead>
<tr>
<th>Extinguishing Media</th>
<th>Water, Dry chemical, Foam, Carbon Dioxide (CO2)</th>
</tr>
</thead>
</table>

Special Fire Fighting Procedures:

N.O.S. approved SCUBA and full protective clothing recommended. Keep out of smoke. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

Unusual Fire/Explosion Hazards:

N/A

SECTION 6: ACCIDENTAL RELEASE MEASURES

EMERGENCY PHONE NUMBERS

Spill Call (CHEMTREC): 1-800-424-3300

Personal Precautions: Use personal protective equipment. Avoid contact with spilled product or contaminated surfaces. Keep unauthorized people away. Remove all sources of ignition. Do not allow spill to enter soil, waterways or waste water systems.

Clean up Procedures: Spill with inert absorbent material. Collect and transfer the product into properly labeled and closed containers for reclamation or disposal. Clean contaminated site completely observing applicable environmental regulations. Contaminated soil may have to be removed and disposed.

SECTION 7: HANDLING AND STORAGE

Handling: Handle and open container with care to prevent exposure or spillage. Avoid eye and skin contact with this material. Use with adequate ventilation. Keep container closed or equipped with a local air exhaust. Handle the container carefully. Do not drop or drag the container. Avoid impacts to the container.

Storage: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, or feed. Store in original container and keep out of reach of children.

SECTION 8: EXPOSURE CONTROLS/PERSOonal PROTECTION

Eye Protection: Wear suitable eye protection.

Respiratory/Ventilation Requirements: Control exposure levels through the use of general and local exhaust ventilation. Avoid breathing vapor or spray mist.

EMERGENCY TELEPHONE #: 800-424-3300

MSDS Number: 4146-601 Issue Date: 03-04-10
NDA = No Data Available NA = Not Applicable
SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION: - Harmful if swallowed, inhaled or absorbed through the skin.
- Avoid contact with Skin, eyes and clothing
- Avoid inhalation of vapor or spray mist
- KEEP OUT OF REACH OF CHILDREN

Acute Health Hazards
Eye: May cause mild eye irritation. The degree of the irritation/injury will depend upon the amount and duration of exposure. Avoid contact with eyes.
Skin: May cause skin irritation. Harmful if absorbed through skin. Avoid contact with skin and clothing. Wash thoroughly with soap and water after handling.
Ingestion: Harmful if swallowed. Do not take internally.
Inhalation: Harmful if inhaled. Avoid inhalation of vapor or mist.

Chronic Health Hazards (Including Cancer): This product or its components may have target organ effects.

Teratology (Birth Defects) Information: No evidence of teratogenicity or other treatment related effects was observed in animal testing.

Mutagenicity: No evidence of mutagenicity was observed during animal testing.

Reproductive and Developmental: No evidence of reproductive or developmental toxicity was observed during animal testing.

Environmental: Toxic to fish, aquatic invertebrates and marine/shoreline organisms. Toxic to birds.

SECTION 4: FIRST AID MEASURES

Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin: Take off all contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Ingestion: Call a physician or poison control center immediately. Rinse out mouth with water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Do not leave victim unattended.

Inhalation: Move person to fresh air. If person is not breathing, call 9-1-1 or an ambulance, then give artificial respiration. preferably mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

NOTE: To Physician: There is no specific antidote. Appropriate supportive and symptomatic treatment is recommended based on patient's condition.

EMERGENCY TELEPHONE #: Chemtrec: 800-424-9300
MSDS Number: 4144-001 Issue Date: 03/24/10
NDA = No Data Available NA = Not Applicable

RESISTANCE MANAGEMENT INFORMATION

The active ingredient in Torque™ Fungicide is a member of the DMI (Demethylating Inhibitor) fungicide group (FRAC group 3) and exhibits no known cross-resistance to products with the same mode of action when used repeatedly in the same location or in successive years as the primary method of control for targeted diseases. Because the speed and scope of resistant population development can not be predicted, the use of this product should conform to resistance management strategies established for the crop and use area. Such strategies may include the rotation of products utilizing different modes of action or limiting the number of applications per season. Contact your local university or extension specialist and/or manufacturer for fungicide resistance management recommendations.

DISEASE CONTROL IN GOLF COURSE TURF

Turf Use Restrictions and Precautions
For use on golf course turf only. Do not use on home lawns and turf sites associated with apartment buildings, daycare centers, playgrounds, playfields, recreational parks, athletic fields, athletic fields located on or near to schools (i.e., elementary, middle and high school), campgrounds, churches, and theme parks. Not for homeowner use. Not for use on turf being grown for sale or commercial use as sod. Do not use clippings for animal feed. Do not exceed 3.6 fl oz. of Torque™ Fungicide per 1,000 sq ft per year. Do not apply more than 6 applications per year.

General Information
For use on all Golf turf applications of cool season and warm season grasses (such as Bentgrasses, Bluegrasses, Fescues, Ryegrasses, St. Augustine grasses, and Zoysia) or their mixtures. Torque™ Fungicide is not phytotoxic to any of the above mentioned grasses when used in accordance with the label. Note: Bermudagrass can be sensitive to Torque™ Fungicide under certain conditions. Do not apply consecutive applications during or just after dormancy break. Avoid applications when temperatures are expected to exceed 85 degrees F.

Begin applications when conditions favor disease development and repeat applications as long as these conditions persist. Preventative treatments can be applied using 28 day intervals as indicated. When treating golf greens, always treat approaches and peripheries. Spray uniformly over the area to be treated with properly calibrated equipment. Apply the specified amount of Torque™ Fungicide in sufficient water for thorough coverage. A volume of 66 - 137 gallons per acre (1.5 - 3.0 gallons per 1,000 sq ft) is recommended. Apply using properly calibrated low volume, hand-held, mechanical or motorized ground broadcast equipment. Application to small areas may be made with low pressure handgun or backpack equipment. Maintain constant agitation during application. Depending on the disease, Torque™ Fungicide should be watered into the crown and active root zone for best results. Make all applications after mowing and allow foliage to dry thoroughly before irrigation. For best results use spray mixture the same day it is prepared.
**Golf Course Turf Disease Control**

<table>
<thead>
<tr>
<th>DISEASE</th>
<th>RATE of Torque™ Fungicide (850 lb/Acre Day)</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dollar Spot (Sclerotinia homoeocarpa)</td>
<td>0.6</td>
<td>For prevention, begin applications when conditions are favorable for disease development. Do not make two consecutive applications of Torque™ Fungicide. Alternate with another fungicide with a different mode of action. A second application may be made after 28 days.</td>
</tr>
<tr>
<td>Copper Spot (Glomerella cingulata)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Powdery Mildew</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Erysiphe graminis)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corticium F/S</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rust (Puccinia spp.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brown Patch/Rhizoctonia Blight</td>
<td>0.6</td>
<td>For prevention, begin applications when conditions are favorable for disease development. Do not make two consecutive applications of Torque™ Fungicide. Alternate with another fungicide with a different mode of action. A second application may be made after 28 days.</td>
</tr>
<tr>
<td>Brown Ring Patch (R. solani)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brown Ring Patch (R. crenata)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anthracnose Basal and Polar (Colletotrichum lindemuthianum)</td>
<td>0.6</td>
<td></td>
</tr>
<tr>
<td>Red Thread</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Elasticus graminicola)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pink Patch</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Lophoscypha rosea)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bermudagrass decline (Galeopsis tridentata var. graminis)</td>
<td>0.6</td>
<td>Immediately after fungicide is applied, irrigate the area with sufficient water to move the active ingredient down into the crown and root zone of the turf. The amount of water is dependent on the depth of the root zone. For prevention, begin applications two or four weeks prior to the historical appearance of disease symptoms. Initiate cultural control practices as soon as the fungicide is applied. Refer to your local County Extension Service for this information. Apply subsequent applications at 28 day intervals.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tile All Patch (Galeopsis tridentata var. graminis)</td>
<td>0.6</td>
<td>For prevention, apply in the fall when soil temperature reaches 55-65°F and again in the spring under similar soil temperature conditions. Applications in both fall and spring may be necessary. Immediately after fungicide is applied, irrigate the area with sufficient water to move the active ingredient down into the crown and active root zone of the turf. The amount of water is dependent on the depth of the root zone.</td>
</tr>
</tbody>
</table>

**MATERIAL SAFETY DATA SHEET**

Please read the entire document. This Material Safety Data Sheet contains important environmental, health and safety information for your employees, and anyone who will use, transport, store, dispose of or handle this product. Please be sure this information is given to them. It also contains information to help you meet community right-to-know/emergency response reporting requirements under SARA Title III and many other laws. If you recall this product, this MSDS must be given to the buyer of the information contained herein must be incorporated in your MSDS.

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** Torque™ Fungicide

**SYNONYM(S):**

**EMERGENCY TELEPHONE NUMBERS**

**COMPANY**

Cleary Chemicals LLC
178 Ridge Road, Suite B
Dayton, NJ 08810
1-800-624-1024

**HEALTH EMERGENCY:** 1-800-222-1222

**SPILL EMERGENCY:** 1-800-424-9300

**PELSON CONTROL CENTER**
**CHEMTRACT**

**SECTION 2: CONFIRMATION/INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th>Active Ingredient(s) Hazardous Inert Ingredient(s)</th>
<th>CAS #</th>
<th>% by Weight</th>
<th>OSHA PEL</th>
<th>ACGIH TWA</th>
<th>NIOSH REL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Telbuconazole</td>
<td>107234-90-3</td>
<td>36.7</td>
<td>NE</td>
<td>5 mg/m³</td>
<td>10 mg/m³</td>
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<tr>
<td>Glyazolate</td>
<td>56-81-0</td>
<td>10.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surfactant blend</td>
<td></td>
<td>10.0</td>
<td></td>
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</tr>
</tbody>
</table>

Only the identities of the active ingredient(s) and any hazardous inert ingredients are listed. Specific information on all of this product's ingredients can be obtained by the treating medical professional or spill emergency responder for the management of exposures, spills, or safety assessments.

*Source: Guide to Occupational Exposure Values 2000, published by ACGIH

**TLV:** Time-weighted average exposure concentration for a conventional 8-hour (TLV, PEL) or up to a 10-hour (PEL) workday and a 40-hour workweek.

**OSHA PEL:** Occupational Safety and Health Administration Permissible Exposure Limits.

**ACGIH TLV:** American Conference of Governmental Industrial Hygienists, Inc., Threshold Limit Values.

**NIOSH REL:** National Institute for Occupational Safety and Health Recommended Exposure Limits.

**EMERGENCY TELEPHONE #: Chemtract 800-624-0300**

MSDS Number: 4145-001 Issue Date: 03/04/10

ND = No Data Available NA = Not Applicable
STORAGE AND DISPOSAL

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

Pesticide Storage: Store in a cool, dry place and in such a manner as to prevent cross-contamination with other pesticides, fertilizers, food and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If container is leaking, invert to prevent leakage. If the container is leaking or material is applied for any reason or cause, carefully dump up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbent type compounds and dispose of as directed for pesticides below. In spill or leak incidents, keep unauthorized people away. You may contact CHEMTRIC for decontamination procedures or any other assistance that may be necessary. The number is 1-800-424-9300.

Pesticide Disposal: Pesticide spray mixture or rinseate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinseate is a violation of Federal law. If these wastes cannot be disposed of by the use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal: Non reifiable container. Do not use or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank 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 rinseate into application equipment or a mix tank for later use or disposal. Drain for 10 seconds after flow begins to drip. Repeat this procedure two more times.

Pressure 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. Hold container upside down over application equipment or mix tank and collect the rinseate 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.

Offer for recycling, if available. If not recycled, then puncture and dispose of in a sanitary landfill or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

CONDITIONS OF SALE AND LIMITED WARRANTY:

The Directions for Use 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 CLEARY CHEMICALS LLC. or the SELLER. To the extent consistent with applicable laws, all such risks shall be assumed by the buyer.

CLEARY CHEMICALS LLC. 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.

CLEARY CHEMICALS LLC. 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, CLEARY CHEMICALS LLC. AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

CLEARY CHEMICALS LLC. 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 CLEARY CHEMICALS LLC.

NOTE: Application of the specified amount of Torque™ Fungicide in 1.5 to 3.0 gallons of water per 1000 sq. ft. Do not exceed 3.6 ft. oz. of Torque™ Fungicide per 1000 sq. ft. per year. Do not exceed 6 applications per year.

<table>
<thead>
<tr>
<th>DISEASE</th>
<th>RATE of Torque™ Fungicide (6 oz/1000 sq ft)</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gray Leaf Spot</td>
<td>0.6</td>
<td>Apply when conditions are favorable for disease development at 20 day intervals. Under conditions favoring moderate to heavy disease pressure Torque™ Fungicide can be tank mixed with a registered contact fungicide at the label rate.</td>
</tr>
<tr>
<td>Stripe Smut</td>
<td>0.6</td>
<td>Make a single application to historical disease areas in spring or grass growth begins.</td>
</tr>
<tr>
<td>Spring Dead Spot</td>
<td>0.6</td>
<td>For prevention, apply in fall when soil temperature reach 55 F and again in spring under similar soil temp conditions or after dormancy breaks. Immediately after fungicide is applied, irrigate the area with sufficient water to move the active ingredient down into the crown and active root zone of the turf. The amount of water is dependent on the depth of the root zone.</td>
</tr>
<tr>
<td>Fusarium Patch</td>
<td>0.6</td>
<td>Apply first application in mid-June or 26 days prior to time this blight normally becomes evident. Make applications at no less than 28 day intervals.</td>
</tr>
<tr>
<td>Summer Patch</td>
<td>0.6</td>
<td>Apply beginning in the spring. Do not make two consecutive applications of Torque™ Fungicide. Alternate with another fungicide with a different mode of action. Second and third applications may be made at 28 day intervals. See local university recommendations for suggested timing. Immediately after fungicide is applied, irrigate the area with sufficient water to move the active ingredient down into the crown and active root zone of the turf. The amount of water is dependent on the depth of the root zone.</td>
</tr>
<tr>
<td>Zoyzia Patch</td>
<td>0.6</td>
<td>Make first application in early fall (mid-September to mid-October) prior to development of disease symptoms. A second application in early spring may be necessary in areas where disease pressure is known to be heavy.</td>
</tr>
<tr>
<td>Gray Snow Mold</td>
<td>0.6</td>
<td>Apply in the fall, before anticipated turf dormancy and before first snow cover. If turf breaks dormancy during winter months a second application may be made. Do not apply over snow cover, or until turf is dormant. It is recommended that Torque™ Fungicide be tank mixed with other registered snow mold products for best season long results.</td>
</tr>
</tbody>
</table>

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### DISEASE CONTROL IN FIELD, NURSERY AND CONTAINER ORNAMENTALS AND COMMERCIAL and RESIDENTIAL LANDSCAPES

#### Ornamental Use Restrictions and Precautions
For use on ornamental plants only; not for woodlands or forest management.
Not for homeowner use.
Do not apply more than 30 fl. oz. per acre in a single application.
Do not apply more than 0.94 gallons (120 fl. oz) of Torque™ Fungicide (equal to 3.38 lbs of Tebuconazole) per acre per year.
Do not make more than 4 applications per year at highest rate.
Do not apply to bearing fruit trees or vegetables.

#### General Information
Torque™ Fungicide can be used in a preventative and curative disease control program for the listed plant types and diseases in the table below. Optimum disease management is obtained when Torque™ Fungicide is used in conjunction with sound disease management practices.

Apply material with properly calibrated hand held, mechanical or motorized spray equipment. Begin applications when disease first appears and repeat at 14-21 day intervals during the growing season. Use the shortest interval when conditions are unusually favorable for the development of disease. For hand held, mechanical, or motorized applications, mix as directed below and apply as a full coverage spray to drip for the prevention and control of the diseases listed below. Choose a finished spray volume appropriate for the size of the plants and amount of foliage, which will provide thorough coverage throughout the canopy. Allow sprays to dry before overhead irrigation is applied.

Apply Torque™ Fungicide at rates of 4-10 fl oz per acre in 100 gallons of water. Spray volume may range from 50 up to 300 gallons of finished spray per acre depending upon environment, plant species and plant growth stage at time of application.

#### Ornaments Disease Control

<table>
<thead>
<tr>
<th>PLANTS</th>
<th>DISEASE</th>
<th>APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roses</td>
<td>Black Spot, Powdery Mildew, Rust</td>
<td>Apply every 14-21 days during the growing season, starting when leaves first appear.</td>
</tr>
<tr>
<td>Flowers</td>
<td>Leaf Spot, Powdery Mildew, Rust, Southern Blight</td>
<td>Apply at least 3 times per year, 14-21 days apart, beginning with Spring bud break, Rotation or Tank mixing with barrier protectant fungicides is recommended for resistance management.</td>
</tr>
<tr>
<td>Crabapples (Ornamental), Dogwoods and Other Landscape (Ornamental) Trees</td>
<td>Anthracnose, Leaf Spot, Powdery Mildew, Rust, Scab</td>
<td>Apply every 14 days for a total of 3 applications beginning at the first sign of disease.</td>
</tr>
<tr>
<td>Azaleas, Camellias, Rhododendrons and Other Landscape (Ornamental) Shrubs</td>
<td>Anthracnose, Black Spot, Leaf Spot, Hail Blight, Powdery Mildew, Rust, Southern Blight</td>
<td>Hail Blight - Apply 2 – 3 times per week into the flowers as they open and develop color.</td>
</tr>
<tr>
<td>Ground Cover and Vines</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### How Much to Use for Small Plantings: Add 1 Teaspoon to 2.5 Gallons of Water.

#### Pump Style Sprayers
1. Add the appropriate amounts of concentrates and water to the sprayer tank.
2. Close the sprayer, shake well and pressurize.
3. Adjust nozzle to a coarse spray pattern and apply.
4. Occasionally re-pressurize the sprayer if needed to maintain a good spray pattern.
For control of listed diseases on ornamentals and golf courses.

**ACTIVE INGREDIENT:**
Tebuconazole, α-[2-(4-chlorophenyl)ethoxy]-α-(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol ... 38.7%

**OTHER INGREDIENTS:**
TOTAL ... 61.3%

Contains 3.6 pounds Tebuconazole per gallon

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

SEE BOOKLET FOR ADDITIONAL PRECAUTIONARY STATEMENTS

**FIRST AID**

**IF SWALLOWED:**
- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

**IF ON SKIN OR CLOTHING**
- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

**IF IN EYES:**
- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

**IF INHALED:**
- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

Note to Physician: No specific antidote. Treat symptomatically. The compound does not cause any definite symptoms that would be diagnostic. Contact with the eyes may cause irritation.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

For Emergency Medical Assistance, call the National Pesticide Information Center 1-800-858-7378.

For chemical emergency: spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300. For product use information call Cleary Technical Support 1-800-524-1662

EPA Reg. No. 1001-87

Manufactured for:
CLEARY CHEMICALS, LLC
178 Ridge Rd. Suite A
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