



Safety Data Sheet

Report
Date 09-Jan-16

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1. Identification

Product Name : OMNI BRAND TEBUCONAZOLE 3.6F FOLIAR FUNGICIDE
Synonyms : None
Product Use : Tebuconazole, triazole fungicide
Manufacturer/Supplier : Helena Chemical Company
Address : 225 Schilling Blvd. Collierville, TN 38017
General Information : 901-761-0050
Transportation Emergency Number : CHEMTREC:800-424-9300

2. Hazard Identification



Signal Word : Warning
Skin Irritation : Causes skin irritation
Eye Irritation : Causes eye irritation
Acute Toxicity Oral : LD50 >5,000 mg/kg (female rat)
Acute Toxicity Dermal : LD50 >5,000 mg/kg (male and female rats)
Hazard Categories : Oral/Dermal/Inhalation Toxicity-5/5/4; Eye/Skin Irritation-2B/2;
Reproductive Toxicity-2
Hazard Statement : May be harmful if swallowed
May be harmful in contact with skin
Harmful if inhaled
Causes eye irritation
Causes skin irritation
Suspected of damaging fertility or the unborn child (state specific effect if known)(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Tebuconazole	107534-96-3	40.53
Propylene glycol	57-55-6	5.0-7.0
Sodium alkylnaphthalene sulphonate-formaldehyde condensate	68425-94-5	1.0-3.0
Other ingredients deemed not to be hazardous	Proprietary	Balance

4. First Aid Measures

Eye : Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Skin : Take off contaminated clothing and wash before reuse. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice. If skin irritation occurs, get medical advice or attention.



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Inhalation : Remove to fresh air. If not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Ingestion : 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 if unconscious.

Indication of Immediate Medical Attention and Special Treatment Needed : No specific antidote is available. Treat symptomatically. The compound does not cause any definite symptoms that would be diagnostic. Contact with eyes may cause irritation.

5. Fire Fighting Measures

Extinguishing Media : Use carbon dioxide, foam or dry agent. If not available, use waterfog or fine water spray but ensure all runoff is contained.

Specific Hazards Arising from the Chemical : Emits oxides of carbon and nitrogen, hydrogen chloride and hydrogen cyanide under fire conditions.

Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective clothing. Ensure all runoff of fire fighting water, if used, is contained.

6. Accidental Release Measures

Personal Precautions : Isolate hazard area. Keep unnecessary and unprotected personnel from entering hazard area.

Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Use full-face air-purifying respirator if engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health. Eyewash and emergency shower should be available in work area.

Emergency Procedures : If container is leaking, invert to prevent leakage. If the container is leaking or material is spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Do not walk through spilled material.

Methods and Materials for Containment and Cleanup : Absorb spilled material with inert absorbent, collect and place in suitable chemical waste container for disposal.

7. Handling and Storage

Precautions for Safe Handling : Use only outdoors or in a well-ventilated area. Avoid release to the environment. Ensure containers are kept closed until using product. Avoid breathing dust, fumes, gas, mists, vapors or spray. Wash hands thoroughly after handling. When opening the container, preparing the spray, and using prepared spray, wear cotton coveralls buttoned to the neck and wrist, washable hat, elbow-length PVC gloves. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

Conditions for Safe Storage : Store locked up. Store in a cool, secure, 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 reach of children, preferably in a locked storage area.

8. Exposure Controls / Personal Protection

TLV/PEL : No PEL or TLV established for the active ingredient, Tebuconazole (CAS No. 107534-96-3).

Appropriate Engineering Controls : Ensure adequate ventilation.



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Personal Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Use full-face air-purifying respirator when needed. Emergency shower and eyewash should be available in work area.

9. Physical and Chemical Properties

Odor/Appearance : Off-white thick liquid suspension; Resin-like odor
Flash Point, °F : >100 Degrees C.
Boiling Point, °F : No data available
Melting Point(Freezing point), °C : 105 Deg. C. (melting point)
Vapor Pressure, mm Hg @ 20 °C : No data available
Vapor Density : No data available
Solubility in Water : 36 mg/L (in water)
Molecular Formula : Not applicable, formulated mixture.
Density, g/mL @ 25 °C : 1.10 (+/- 0.05 g/ml)
Evaporation Rate(Butyl Acetate = 1) : No data available
Octanol/Water Partition Coefficient : log Kow=3.7
pH : 5.5 to 7.5
Flammable Limits (approximate volume % in air) : No data available
Auto-ignition Temperature : No data available
Decomposition temperature : No data available

10. Stability and Reactivity

Reactivity : Not reactive
Chemical Stability : Stable
Hazardous Decomposition Products : Oxides of carbon and nitrogen, hydrogen chloride and hydrogen cyanide.
Hazardous Polymerization : Will not occur
Conditions to Avoid : Excessive heat.
Incompatible Materials : Oxidizing agents.

11. Toxicological Information

Acute Toxicity (Oral LD50) : >5,000 mg/kg (female rat). May be harmful if swallowed.
Acute Toxicity (Dermal LD50) : >5,000 mg/kg (male and female rats). May be harmful in contact with skin.
Acute Toxicity Inhalation LC50 : >2.0 mg/L/4 hour. Harmful if inhaled.
Likely Routes of Exposure : Ingestion, skin contact, skin absorption, eye contact.
Skin Irritation : Causes skin irritation.
Eye Irritation : Causes eye irritation.
Skin Sensitization : Not a skin sensitizer.
Carcinogenic : Not listed by ACGIH, IARC, NTP or OSHA.
Chronic Effects : Tebuconazole caused liver, spleen, adrenal and/or effects at high doses in rats and dogs. Tebuconazole caused only transient neurobehavioral effects in acute, subchronic and/or developmental studies in rats. Not mutagenic.
Other Hazards : Reproductive Toxicity: Suspected of damaging fertility or the unborn child. Not considered a primary reproductive toxicant in rats. Not considered a primary developmental toxicant in lab animals.

12. Ecological Information



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- Ecotoxicity** : Avoid contamination of any water supply with chemical or empty container.
- Persistence and Degradability** : Tebuconazole is not readily degradable in laboratory soil studies, but under field conditions, it degrades much more rapidly and does not accumulate.
- Bioaccumulative Potential** : Not bioaccumulative.
- Mobility in Soil** : Tebuconazole has a low potential for leaching into groundwater or moving to deeper soil layers.
- Other Adverse Effects** : No other effects known.

13. Disposal Considerations

- Waste Disposal Method** : This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

14. Transport Information

- UN Proper Shipping Name** : Not regulated by DOT.
- Transport Hazard Class** : None
- UN Identification Number** : None
- Packaging Group** : None
- Environmental Hazards** : Not listed as a Marine Pollutant under Appendix B to 49 CFR 172.101.
- Transport in Bulk** : None required
- Special Precautions for Transportation** : If shipped by air (IATA) or vessel (IMDG), ship as: UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (Tebuconazole), 9, PG III, Marine Pollutant "ERG # 171"
- Freight Classification** : Pesticides, NOI, Fungicides, Other than Poison (NMFC Item 155050, Sub 11, Class 70)

15. Regulatory Information

National Fire Protection Association Rating

Health: 1 Fire: 1 Reactivity: 1
Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

S.A.R.A Title III Hazard Classification (Yes/No)

Immediate(Acute) Health: Y
Delayed (Chronic) Health: Y
Sudden Release of N
Pressure:
Fire: N
Reactive: N

FIFRA Information : This Chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labelling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

EPA Registration Number : 84229-44-5905

FIFRA Signal Word : Caution

FIFRA Label Statement : Keep out of reach of children.

FIFRA Label Statement : Harmful if swallowed, inhaled or absorbed through skin.

FIFRA Label Statement : Avoid contact with skin, eyes, and clothing. Avoid breathing vapor or spray mist.

FIFRA Label Statement : 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



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FIFRA Label Statement : mean high water mark. Runoff may be hazardous to aquatic organisms in neighboring areas.
FIFRA Label Statement : Do not contaminate water when disposing of equipment washwaters or rinsate.

16. Other Information

Data of Preparation/Revision : 09-January-2016