

Gulfstream Home and Garden
2030 Powers Ferry Road, Suite 370
Atlanta, GA 30339

Consumer Service/General Questions: 866-945-5033
Medical (Human or Animal): 800-420-9347
Transporation and Spills: 800-424-9300

1. PRODUCT IDENTIFICATION

Product Name: Maxide Dual Action Disease Killer Ready To Spray
 Item Numbers: 1280
 EPA Signal Word: Warning
 Active Ingredient (%): Propiconazole (1.55) CAS No.: 60207-90-1
 Chemical Name: 1-[[2-(2,4-dicholorphenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole
 Chemical Class: Triazole Derivative Fungicide
 EPA Registration Number(s): 100-952-85579

2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen
Tetrahydrofurfuryl Alcohol (THFA)	Not Established	Not Established	0.5 ppm TWA****	No
Propiconazole (1.55%)	Not Established	Not Established	8 mg/m ³ TWA ***	No

*** Manufacturers Occupational Exposure Limit (OEL)
 **** Recommended by AIHA (American Industrial Hygiene Association)

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

3. HAZARDS IDENTIFICATION

Health and Environmental:
 Harmful if inhaled. May be harmful if swallowed or in contact with skin. Irritating to eyes. May cause drowsiness or dizziness. May be harmful if swallowed and enters airway.

Hazardous Decomposition Products
 None known

Physical Properties
 Appearance: Clear yellow-amber liquid
 Odor: Similar to latex

Unusual Fire, Explosion and Reactivity Hazards
 During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

4. FIRST AID MEASURES

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

Ingestion: If swallowed: Call 800-420-9347, a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so after calling 800-420-9347 or by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Eye Contact: If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call 800-420-9347, a poison control center or doctor for treatment advice.

Skin Contact: If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call 800-420-9347, a poison control center or doctor for treatment advice.

Inhalation: 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 800-420-9347, a poison control center or doctor for further treatment advice.

Notes to Physician

There is no specific antidote if this product is ingested. Treat symptomatically. Contains petroleum distillate – vomiting may cause aspiration pneumonia.

Medical Condition Likely to be Aggravated by Exposure

None known

5. FIRE FIGHTING MEASURES

Fire and Explosion

Flash Point (Test Method): > 200 degrees F (Pensky-Martens CC)

Flammable Limits (% in Air): Lower: Not applicable Upper: Not applicable

Autoignition Temperature: Not available

Flammability: Not available

Unusual Fire, Explosion and Reactivity Hazards

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

In Case of Fire

Use dry chemical, foam or CO2 extinguishing media. Wear full protection clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. HANDLING AND STORAGE

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Ingestion: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact: Where eye contact is likely, use chemical splash goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Skin Contact: Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), or viton), coveralls, socks and chemical resistant footwear.

Inhalation: A respirator is not normally required when handling this substance. Use effective engineering controls to comply with occupational exposure limits.

In case of emergency spills, use a NIOSH approved respirator with any R, P or HE filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear yellow-amber liquid

Odor: Similar to latex

Melting Point: Not available

Boiling Point: Not available

Specific Gravity/Density: 1.01 g/cm³ (typical)

pH: 6 - 8.5 (1% solution in H₂O) @ 77 degrees (25 degrees C)

Solubility in H₂O

Propiconazole: 0.1g/1 @ 68 degrees F (20 degrees C)

Vapor Pressure

Propiconazole: 4.2 x 10⁽⁻⁷⁾ mmHg @ 77 degrees F (25 degrees C)

10. STABILITY AND REACTIVITY

Stability:	Stable under normal use and storage conditions.
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	None known
Materials to Avoid:	None known
Hazardous Decomposition Products:	None known

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies (Finished Product)

Ingestion:	Oral (LD50 Rat):	4340 mg/kg body weight (data based on a similar formulation)
Dermal:	Dermal (LD50 Rabbit):	>2020 mg/kg body weight (data based on a similar formulation)
Inhalation:	Inhalation (LC50 Rat):	>2.6 mg/l air – 4 hours (data based on a similar formulation)
Eye Contact:	Moederately Irritating (Rabbit) (data based on a similar formulation)	
Skin Contact:	Non-irritating (Rabbit) (data based on a similar formulation)	
Skin Sensitization:	Not a sensitizer (Guinea Pig) (data based on a similar formulation)	

Reproductive/Developmental Effects

Propiconazole: None observed

Chronic/Subchronic Toxicity Studies

Propiconazole: None observed

Carcinogenicity

Propiconazole: Increased incidence of liver tumors at extremely high doses (male mice).

Other Toxicity Information: None

Toxicity of Other Components

Tetrahydrofurfuryl Alcohol (THFA): Inhalation of vapors at high concentrations can cause central nervous system effects (dizziness, headache), irritation to eyes or respiratory tract. Chronic overexposure may effect the kidney.

Target Organs

Active Ingredients: Propiconazole: Liver

Inert Ingredients: Tetrahydrofurfuryl Alcohol (THFA): CNS, kidney

12. ECOLOGICAL INFORMATION

Summary of Effects: Propiconazole: Very toxic to aquatic life.

Ecotoxicity Effects:

Propiconazole:

Fish (Rainbow Trout) 96-hour LC50 0.83 ppm
Invertebrate (Water Flea) 48-hour EC50 3.2 ppm
Green Algae 9-day EC50 0.72 ppm
Bird (Mallard Duck) 14-day LD50 2510 mg/kg

Environmental Fate

Propiconazole:

The information presented here is for the active ingredient, propiconazole. Low bioaccumulation potential. Not persistent in soil. Stable in water. Low mobility in soil. Sinks in water (after 24 h).

13. DISPOSAL CONSIDERATIONS

Disposal: Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state and federal health and environmental regulations.

Characteristic Waste: Not applicable

Listed Waste: Not applicable

14. TRANSPORT INFORMATION

DOT Classification:

Not regulated by DOT

B/L Freight Classification: Fungicides, NOI

Comments:

Not regulated

15. REGULATORY INFORMATION

EPCRA SARA Title III Classification

Section 311/312/ Hazard Classes: Acute Health Hazard

Section 313 Toxic Chemicals: Propiconazole (1.55%) (CAS No. 60207-90-1)

California Proposition 65: None applicable

CERCLA/SARA 302 Reportable Quantity (RQ): None.

RCRA Hazardous Waste Classification (40 CFR 261) : Not available

TSCA Status: Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 2
Flammability: 1
Instability: 0

HMIS Hazards Ratings

Health: 1
Flammability: 1
Reactivity: 0

0	Minimal
1	Slight
2	Moderate
3	Serious
4	Extreme

For non-emergency questions about this product call: 866-945-5033

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.

End of MSDS

Revised Date: September 2009