



SAFETY DATA SHEET

1. Product Identification:

Product Name: PROPICONAZOLE 3.6 EC FUNGICIDE

Manufacturer: Repar Corporation
Telephone: 202-223-1424
Address: P.O. Box 4321
City, State, Zip: Silver Spring, MD 20914
Emergency Phone: 202-223-1424 (Monday-Friday,
 10:00 a.m. – 6:00 p.m.)
24 Hour Emergency Phone (CHEMTREC): 1-800-424-9300
U.S. EPA Registration No.: 69361- 40
Product Use: Fungicide

2. Health Hazard(s) Identification:

(As defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200)

Amber liquid with aromatic odor

HEALTH HAZARDS: WARNING! Causes substantial but temporary eye injury. Harmful if swallowed. Possible skin sensitizer.

PHYSICAL HAZARDS: Combustible liquid. May release toxic fumes if burned

ENVIRONMENTAL HAZARDS: Toxic to aquatic life.



3. Composition/Ingredient Information:

Chemical Names:

Active Ingredient:	CAS Number	Percentage by Weight
1-[[2-(2,4-dichlorophenyl)-4-Propyl-1,3-dioxolan-2-yl]Methyl]-1,2,4-triazole	60207-90-1	41.8%

Common Name of Active Ingredient:

Propiconazole	60207-90-1	41.8%
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Other Ingredients:

Inert Ingredients	N/A	58.2%
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*Inert ingredient identity is confidential business information

4. First Aid Measures:

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 Swallowed:

- Call a poison control center or doctor immediately.
- Do not give any liquid to the person.
- 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 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.

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

NOTE TO PHYSICIAN: Contains petroleum distillate – vomiting may cause aspiration pneumonia.

5. Fire Fighting Measures:

EXTINGUISHING MEDIA: Use water, fog, foam, or CO₂

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: Flammable Liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point. Heavy vapors can flow along surfaces to distant ignition sources and flash back.

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

SPECIAL PROTECTIVE ACTIONS FOR FIRE FIGHTERS: Wear full protective 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:

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

PERSONAL PRECAUTIONS: Follow protective measures indicated in Section 8: Exposure Control/Personal Protection for both emergency and non emergency personnel. Warning: flammable vapors may be present. Eliminate sources of ignition and ventilate spill area. Use non-sparking cleanup equipment to prevent vapor ignition.

ENVIRONMENTAL PRECAUTIONS: Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water.

METHODS FOR CLEANING UP: Control the spill at its source. 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 disposal.

7. Handling and Storage:

HANDLING AND STORAGE PRECAUTIONS:

HANDLING: 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.

STORAGE: Store in the original container in cool place. Do not store food, beverages or tobacco products in the storage area.

8. Exposure Control/Personal Protection:

EXPOSURE GUIDELINES: Occupational exposure limit (OEL) and biological limit values (BLV) for Propiconazole – CAS No.: 60207-90-1 not established, control banding approach not available.

APPROPRIATE ENGINEERING CONTROLS: Sufficient ventilation to avoid buildup of vapors.

WORK/HYGIENE PRACTICES: Emergency shower and eyewash facilities should be in close proximity (ANSI Z358.1). Launder contaminated clothing and wash hands and face after use. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

The following personal protective equipment should be used in conjunction with exposure control measures:

EYE/FACE PROTECTION: Protective eyewear and chemical resistant headgear.

SKIN PROTECTION: Coversalls over short sleeved shirt and short pants, and chemical resistant footwear

RESPIRATORY PROTECTION: NIOSH/MSHA approved respirator, following manufacturer's recommendations, should be used as a precautionary measure where airborne contaminants may occur. (OSHA Standard 29 CFR 1910.134).

HAND PROTECTION: Chemical resistant gloves, such as barrier laminate or Viton® (category F or G)

9. Physical & Chemical Properties:

APPEARANCE:	Amber liquid
ODOR:	Aromatic
ODOR THRESHOLD:	ND
pH:	4-7 (1% solution in water at 77°F)
MELTING POINT:	NA
BOILING POINT:	NA
FLASH POINT:	110°F (Pensky-Martin Closed Cup)
EVAPORATION RATE:	ND
FLAMMABILITY (solid, gas):	Flammable liquid and vapor
LOWER FLAMMABILITY LIMIT:	ND
UPPER FLAMMABILITY LIMIT:	ND
VAPOR PRESSURE:	4.4 x 10 ⁻⁷ mmHg @ 77°F (25°C)
VAPOR DENSITY:	ND
RELATIVE DENSITY (H ₂ O = 1):	1.0306 g/cm ³ @ 68°F (20°C)
SOLUBILITY (in water):	Forms an emulsion in water
PARTITION COEFFICIENT (n-octanol/water):	NA
AUTO-IGNITION TEMPERATURE:	849.2°F
DECOMPOSITION TEMPERATURE:	ND
VISCOSITY:	1 x 10 ⁻⁵ m ² /s

10. Stability & Reactivity:

REACTIVITY: None known
STABILITY: Stable under normal use and storage conditions, however may decompose if heated.
HAZARDOUS REACTIONS: Polymerization will not occur
CONDITIONS TO AVOID: Avoid temperatures above 125°F (48°C)
INCOMPATIBLE MATERIALS: Acidic and oxidizing materials
HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride, Oxides of nitrogen

11. Toxicological Information:

Toxicological Data for Propiconazole 3.6 EC:

Oral LD ₅₀ (rat):	1,310 mg/kg bw
Dermal LD ₅₀ (rat):	>5,000 mg/kg bw
Inhalation LC ₅₀ (rat):	>2.5 mg/L air – 4 hours
Skin irritation (rabbit):	Moderate irritant
Skin sensitization (Guinea Pig):	Sensitizing
Eye irritation (rabbit):	Moderate irritant
Specific target organ toxicity (STOT):	
STOT-single exposure:	ND
STOT-repeated exposure:	ND
Aspiration hazard:	ND
NUMERICAL MEASURES OF TOXICITY:	ND
INTERACTIVE EFFECTS:	ND

ROUTES OF EXPOSURE:

INHALATION: Vapors may cause drowsiness or dizziness.
SKIN: Irritating to skin. May cause allergic skin reaction.
EYE CONTACT: Irritating to eyes.
INGESTION: Harmful if swallowed. Abdominal pain, nausea, gastritis, breathing difficulty or diarrhea can also occur if swallowed.

Toxicological Data for Propiconazole Technical:

Chronic/Subchronic Toxicity:	None observed
Carcinogenicity:	Increased incidence of liver tumors at extremely high doses (male mice).
Reproductive Toxicity:	None observed
Target Organs:	Liver

12. Ecological Information:

Ecological Data for Propiconazole Technical:

96-hour LC ₅₀	Rainbow Trout	0.83 ppm
48-hour EC ₅₀	Water Flea	3.2 ppm
9-Day EC ₅₀	Green Algae	0.72 ppm
14-Day Dietary LD ₅₀	Mallard Duck	2510 ppm

PERSISTENCE AND DEGRADABILITY: Not persistent in soil. Stable in water. Sinks in water (after 24h).

BIOACCUMULATIVE POTENTIAL: Low bioaccumulation potential.

MOBILITY IN SOIL: Low mobility in soil.

13. Disposal Considerations:

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

PESTICIDE DISPOSAL: Pesticide may be toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Non-refillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying Triple rinse as follows: Empty the remaining contents into application equipment or 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 mix tank or store rinsate for later use and disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

14. Transport Information:

DOT Classification

Ground Transport - NAFTA
Proper Shipping Name: Flammable Liquid, N.O.S. (Xylene/Ethylbenzene)
Hazard Class: Class 3
Identification Number: UN 1993
Packing Group: PG III
Note: RQ = 1000 gal. for Xylene

Comments

Water Transport - International
Proper Shipping Name: Flammable Liquid, N.O.S. (Xylene/Ethylbenzene), Marine Pollutant, (Propiconazole)
Hazard Class: Class 3
Identification Number: UN 1993
Packing Group: PG III

Air Transport

Proper Shipping Name: Flammable Liquid, N.O.S. (Xylene/Ethylbenzene)
Hazard Class: Class 3
Identification Number: UN 1993
Packing Group: PG III

15. Regulatory Information:

This chemical is a pesticide product registered with the U.S. Environmental Protection Agency and is subject to certain labeling 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:

WARNING

Causes skin irritation. Harmful if absorbed through skin or swallowed.

16. Other Information:

HMIS HAZARD RATING	HEALTH	2
	FLAMMABILITY	2
	PHYSICAL HAZARD	0
	4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal	

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This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information

specifically for product use in the ordinary course. Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling.

It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

REVISED DATE: June 1, 2015

REFERENCE: Revised for GHS compliance