

# Material Safety Data Sheet

Product Name: Systemic Fungicide

MSDS No.: 674-5

Version No.: 002

EPA Registration No.: 53883-184-2217

## 1. Basic Information:

**Manufacturer:** PBI/Gordon Corporation  
**Address:** 1217 West 12th Street  
**City, State Zip:** Kansas City, MO 64101-1407  
**Information Contact:** Environmental, Health, & Safety Dept.  
**Information Telephone Number:** (816)421-4070  
**Emergency Contact:** Chemtrec  
**Emergency Telephone Number:** (800)424-9300

**Last Update:** 3/29/2010

**Chemical State:** ☐ Liquid ☐ Gas ☒ Solid  
**Chemical Type:** ☐ Pure ☒ Mixture



2	Health
0	Flammability
0	Reactivity
B	Pers. Protection

## 2. Ingredients:

☐ Trade Secret (ND = Not Disclosed)

CAS No.	Chemical Name	% Range	EHS	NTP	IARC	SUB Z	SARA 313	OSHA PEL	ACGIH TLV	Other Limits
60207901	Propiconazole	1.55%	N	N	N	N	Y	NI	NI	NI

## 3. Hazardous Identification:

**Hazard Category:**

☒ Acute ☒ Chronic ☐ Fire ☐ Pressure ☐ Reactive

**Hazardous Identification Information:**

## 4. First Aid Measures:

**Route(s) of Entry:**

Contact, inhalation, ingestion.

**Health Hazards (Acute and Chronic):**

May cause eye and skin irritation. Avoid contact with eyes, skin or clothing.

**EYES:** This substance is a moderate eye irritant and causes substantial but temporary eye injury. The degree of the injury will depend on the amount of material that gets into the eye and speed and thoroughness of the first aid treatment. Signs and symptoms of overexposure may include discomfort, irritation and redness, and blurred vision.

**SKIN:** This substance may cause skin irritation on prolonged or frequently repeated contact. If absorbed through the skin, this substance is considered practically non-toxic to internal organs.

**INGESTION:** If swallowed, this substance is considered practically non-toxic to internal organs.

**INHALATION:** Overexposure to spray mist may result in minor irritation of the upper respiratory tract.

**Signs and Symptoms:**  
NI

**Medical Conditions Generally Aggravated by Exposure:**  
NI

**Emergency First Aid Procedure:**  
If swallowed:

- Call a poison control center or doctor immediately for treatment advice.
- Do not induce vomiting unless told to by a poison control center or doctor.

### First Aid Measures (Continued)

- Have person sip a glass of water if able to swallow.
- Do not give anything by mouth to an unconscious person.

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.
- Call a poison control center or doctor for treatment advice.

If on skin:

- 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 treatment advice.

**Other Health Warnings:**

NOTES TO PHYSICIAN: Propiconazole has no specific antidote if ingested. If ingested, induce emesis or lavage stomach. Treat symptomatically.

## 5. Fire Fighting Measures:

**Flash Point:** NI **F.P. Method:**

**Lower Explosive Limit:** NI

**Upper Explosive Limit:** NI

**Fire Extinguishing Media:**

CO<sub>2</sub>, dry chemical, water.

**Special Fire Fighting Procedures:**

Wear self-contained breathing apparatus and full protective gear. Use water spray to cool containers.

**Unusual Fire and Explosion:**

Fire produces toxic and flammable products. Remain upwind. Water from fire control may pollute surface water. If pollution occurs call local authorities.

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## 6. Accidental Release Measures:

### Steps to be Taken in Case Material is Released or Spilled:

Do not touch spilled product. See Section 8 for Personal Protective Equipment. Contain and collect spilled material for reuse or disposal. Place in drums; cover and label the drums. Wash area with water, if possible. Do not allow waste water to contaminate surface water.

## 7. Handling and Storage:

### Precautions to be Taken:

See label. Wash hands with soap and water after handling product. Avoid container breakage. Avoid inhalation or contact with skin, eyes or clothing.

STORAGE: Keep out of reach of children. Store in a cool, dry area away from incompatible materials and heat sources. Store away from feed and foodstuffs, as well as household cleaning products.

### Other Precautions:

Do not contaminate water when disposing of equipment wash waters. Keep out of lakes, streams or ponds.

## 8. Exposure Controls/Personal Protection:

### Ventilation Requirements:

Mechanical ventilation is recommended if product is applied in an enclosed area. Good local ventilation is required.

### Personal Protective Equipment:

Hazards to Humans and Domestic Animals

Warning – Causes substantial, but temporary eye injury. Do not get in eyes. Wear goggles or safety glasses. Harmful if swallowed, inhaled, or absorbed through skin. Avoid contact with skin or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

Do not allow people or pets to contact treated areas until spray is dry.

Applicators and other handlers (other than mixers and loaders) must wear:

- Goggles or face shield.
- Long-sleeved shirt and long pants
- Shoes plus socks

Mixers and Loaders must wear:

- Goggles or face shield
- Long-sleeved shirt and long pants
- Shoes plus socks

Discard clothing and 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.

PROTECTIVE CLOTHING: Wear long sleeve shirt, long pants, shoes with socks.

EYE PROTECTION: Goggles or face shield.

RESPIRATORY PROTECTION: If exposure limits may be exceeded, wear a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any N, R, P or HE filter.

## 9. Physical and Chemical Properties:

## Physical and Chemical Properties (Continued)

Boiling Point: NI

Melting Point: <25°F

Evaporation Rate (Butyl Acetate = 1) : NI

Vapor Pressure (mm Hg.): NI

Vapor Density (Air = 1): NI

Specific Gravity (H2O = 1): 1.02000

Solubility in Water: Soluble

Appearance and Odor: Light amber liquid, Latex odor

### Other Information:

Density: 8.51 pounds/gallon

pH: 5.0 - 6.0 (1% solution)

## 10. Stability and Reactivity:

### Stability:

Stable

### Incompatibility (Materials to Avoid):

Heat

### Decomposition/By-Products:

No known hazardous decomposition products

### Hazardous Polymerization:

Will not occur

## 11. Toxicological Information:

Eye Effects: Technical grade propiconazole is considered slightly irritating to eyes (rabbit).

Skin Effects: Technical grade propiconazole is considered non-irritating to skin (rabbit).

Acute:

Eyes: Moderately irritating (rabbit) based on a similar formulation.

Dermal LD50: >2,020 mg/kg body weight based on data for a similar formulation.

Oral LD50: 4,340 mg/kg body weight based on data from a similar formulation.

Inhalation LC50: The 4-hour inhalation LC50 is >2.6 mg/L air based on data for a similar formulation.

Sensitization: Propiconazole is not a dermal sensitizer.

Target Organs: The liver is a possible target organ for propiconazole.

Carcinogenicity: IARC: No NTP: No OSHA: No

Carcinogenicity comments: Increased incidence of liver tumors have been observed in male mice given extremely high doses of propiconazole.

Teratogenicity: Propiconazole is not considered teratogenic.

Reproductive Toxin: The active ingredient in this product has not been associated with adverse reproductive effects.

## 12. Ecological Information:

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not apply directly to water. Do not contaminate water when disposing of equipment wash water

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## Ecological Information (Continued)

Environmental Data: Propiconazole is toxic to fish, has low toxicity to wildlife, and is nontoxic to bees.

Chemical Fate Information: Propiconazole is stable in sterile water in the dark at pH 5, 7, and 9. Degradation in light varies from slow in water ( $t_{1/2}$  = 249d @ pH 7 to variable in soil ( $t_{1/2}$  53d to stable). Degradation in soil, in the dark is moderate under aerobic conditions ( $t_{1/2}$  > 1 yr). Medium to low mobility in various soils (Koc 382 to 1134).

## 13. Disposal Considerations:

### DISPOSAL CONSIDERATIONS:

For Large Spills: Material collected that cannot be reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable federal, state or local procedures.

PRODUCT DISPOSAL: Carefully follow all label directions and precautions.

### CONTAINER DISPOSAL:

If empty: Do not reuse this container. Place in trash or offer for recycling if available.

If partially filled: Call your local solid waste agency or toll free number for disposal instructions. Never place unused product down any indoor or outdoor drain.

## 14. Transport Information:

The following guidelines apply for domestic ground transport. If shipping by air or ocean, please contact our Transportation Dept.

Freight Class: PESTICIDES, NOI - NMFC #155050-6

In our current available sizes, this product does not qualify as a Hazardous Material.

## 15. Regulatory Information:

OSHA STATUS: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA STATUS: This product is exempt from TSCA Regulation under FIFRA Section 3(2)(B)(ii) when used as a pesticide.

CERCLA REPORTABLE QUANTITY: None

### SARA TITLE III:

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: None

SECTION 311/312 HAZARD CATEGORIES: Immediate Health Hazard, Delayed Health Hazard

SECTION 313 TOXIC CHEMICALS: Propiconazole CAS# 60207-90-1

RCRA STATUS: If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

## 16. Other Information:

REASON FOR ISSUE: New MSDS in the ANSI Z400.1-1998 format

NOTE: NI means not indicated.

The information and statements in this Material Safety Data Sheet are believed to accurately reflect the scientific evidence used in making the hazard determination, but is not to be construed as a warranty or representation for which we assume legal responsibility. Additional

## Other Information (Continued)

information may be necessary or desirable depending on particular, exceptional or variable conditions or circumstances of use or storage or because of locally applicable laws or government regulations. Therefore, you should use this information only as a supplement to other information available to you and must make independent determinations of the suitability of the information for your particular circumstances or conditions and of the completeness of the information available from all sources to assure both the proper use of the material described herein and the safety and health of employees.