

MATERIAL SAFETY DATA SHEET

Emergency Phone: CHEMTREC 800-424-9300

Effective Date: June 15, 2011

Replaces MSDS of May 26, 2010

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Willowood Propicon 3.6EC Fungicide

CHEMICAL FAMILY: Triazoles

EPA REG. NO. 87290-7

COMPANY IDENTIFICATION:

Willowood LLC

1600 NW Garden Valley Blvd., Suite 120

Roseburg, Oregon 97471

Tel: 877-679-9963

2. COMPOSITION, INFORMATION OF INGREDIENTS:

Components

CHEMICAL NAME	CAS NUMBER	EINECS #	%
Propiconazole	60207-90-1	255-983-0	41.8
Aromatic Solvent	64742-95-6	265-198-5	> 44
Emulsifier	Proprietary	Proprietary	> 9
Propylene Glycol	57-55-6	2	> 3
Inerts	Proprietary	Proprietary	> 2

3. HAZARDS IDENTIFICATION SUMMARY:

NOTE: Please refer to Section 11 for detailed toxicological information.

EMERGENCY OVERVIEW: WARNING! This product is an irritant and an environmentally hazardous substance.

The product may be harmful if it is inhaled or swallowed. Avoid contact with eyes and skin. This herbicide is toxic to aquatic organisms. This product forms flammable mixtures above 110 °F (43 °C.)

POTENTIAL HEALTH EFFECTS:

ROUTES OF ENTRY: Eye contact, skin adsorption, ingestion and inhalation.

INHALATION: Overexposure to the vapour or mist may cause upper respiratory irritation, headache, dizziness, nausea, vomiting and cramps.

SKIN CONTACT: May cause skin irritation.

EYE CONTACT: Vapour or mist may cause moderate irritation to the eyes.

INGESTION: Harmful if swallowed may cause headache, dizziness, nausea, vomiting and cramps.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: May cause upper respiratory irritation, cause gastric irritation, dermatitis to the skin and sensitive eyes.

CARCINOGENICITY: None.

4. FIRST AID MEASURES:

INHALATION: Move to fresh air free from risk of further exposure. If person not breathing call 9-1-1, then apply rescue breathing. Seek medical attention as soon as possible.

EYE CONTACT: Flush with clean, lukewarm water raising upper and lower eyelids at low pressure for 15 minutes. Remove contact lenses, if present, after the first five minutes and continue to rinse the eyes. Seek medical attention if no relief.

SKIN CONTACT: Rinse area with clean water for 15-20 minutes. Call poison control center or doctor for treatment advice.

INGESTION: Call a poison control center or doctor immediately for treatment advice. DO NOT INDUCE VOMITING. Lower the head when person is vomiting to minimize entry into throat and lungs.

NOTES TO PHYSICIAN TREATMENT: There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

5. FIRE FIGHTING MEASURES:

FLASHPOINT AND METHOD: 221°F (105 °C) Combustible liquid

FLAMMABLE LIMITS: NE

EXTINGUISHING METHOD: Use dry chemicals, carbon dioxide and foam.

FIRE OR EXPLOSION HAZARDS: Thermal decomposition may form hydrogen chloride. This material under complete combustion will form oxides of carbon and nitrogen plus chlorides

SPECIAL FIREFIGHTING PROCEDURES: Keep upwind of fire. Full emergency equipment with self-contained breathing apparatus and full protective clothing to be worn by firefighters.

6. ACCIDENTAL RELEASE MEASURES:

SPILL OR LEAK PROCEDURES: Wear PPE. Avoid breathing vapor or mist. Avoid contact with ignition sources. Isolate the area and prevent material from getting into waterways.

Absorb with vermiculite, sand or other inert absorbent and place the collected material in a closed container.

Finish cleaning the area with small amounts of soap and water on the spill area.

7. HANDLING AND STORAGE:

STORAGE TEMPERATURE: Avoid high temperatures above 110 °F (43°C.) Keep containers tightly closed and in a cool dry area. Provide a cool well-ventilated area.

SPECIAL SENSITIVITY: Avoid contact with skin and eyes and wear PPE in section 8.

HANDLING AND STORAGE PRECAUTIONS: Avoid breathing the vapor or mist. Use normal safety procedures and good personal hygiene. Wash thoroughly after use and before eating, drinking, chewing gum or using tobacco.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION:

EYE PROTECTION: Use safety glasses or goggles, there is potential for vapor or mist exposure to cause injury to the eyes.

SKIN PROTECTION: Wear chemical resistant glove (Nitrile.) Wear long sleeve shirts, long pants and shoes and socks.

RESPIRATORY PROTECTION: Wear respirator if the airborne conditions result in an aerosol forming.

OCCUPATIONAL EXPOSURE LIMITS: Naphthalene 50 ppm

ENGINEERING CONTROLS: Provide adequate ventilation when product is used. Eyewash and shower should be provided in mixing and loading areas.

9. PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL FORM: Liquid.

COLOR: Yellow

ODOR: Slight aromatic odor.

pH: 4.5-5.5

SOLUBILITY IN WATER: Emulsifies.

FLASH POINT: 221 °F (105 °C)

SPECIFIC GRAVITY (water=1): 1.1031 @ 68 °F (20 °C)

10. STABILITY AND REACTIVITY:

STABILITY: This product is stable material under normal conditions of storage and handling. Avoid contact with ignition sources.

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBLES: Avoid strong oxidizing acids and bases.

DECOMPOSITION PRODUCTS: Product will burn and the products of complete combustion are oxides of carbon and nitrogen plus chlorides.

11. TOXICOLOGICAL INFORMATION:

The significant routes of exposure are eyes and skin.

Naphthalene is a suspected carcinogen.

Oral LD_{50(rat)} = 3000 mg/kg Dermal LD_{50(rat)} = 2000 mg/kg LC_{50(rat)} = 2.0 mg/L (4-hr test no deaths)

12. ECOLOGICAL INFORMATION:

Product may be toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS:

WASTE DISPOSAL METHOD: This material is a combustible liquid, wear vapor or mist respirator and other required PPE to dispose of the material according to label instructions for

pesticide and container disposal. Dispose according to the regulations of local, state and Federal regulatory agencies.

14. TRANSPORT INFORMATION:

US DOT (ground) SHIPPING NAME: Not regulated by ground shipment, per 49 CFR Part 172.101(12)(iv)

IATA (air) SHIPPING NAME: Not regulated by air in non-bulk.

IMO (water) SHIPPING NAME:

UN3082, Environmentally hazardous substance, liquid, N.O.S., (Propiconazole), 9, III, Marine Pollutant.

15. REGULATORY INFORMATION:

OSHA STATUS: None.

TSCA STATUS: Not listed.

CERCLA REPORTABLE QUANTITY: None.

CALIFORNIA PROPOSITION 65: None.

RCRA STATUS: Not regulated under RCRA

SARA 311/312 HAZARD NOTIFICATION/REPORTING

IMMEDIATE Y **FIRE** N **SUDDEN RELEASE OF PRESSURE** N

DELAYED Y **REACTIVE** N

SARA TITLE III: None.

SECTION 302 EXTREMELY HAZARDOUS: None.

SECTION 311/312 HAZARD CATEGORIES: None.

SECTION 313 TOXIC CHEMICALS: None.

RIGHT TO KNOW: Propylene glycol is listed in California, Illinois, Massachusetts, New Jersey, Pennsylvania and Rhode Island.

16. OTHER INFORMATION:

National Fire Protection Association (NFPA)

Hazardous Materials Identification System (HMIS)

NFPA		HMIS	
	0 Least		
1 Health	1 Slight	1	Health
1 Flammability	2 Moderate	1	Flammability
0 Instability	3 High	0	Reactivity
	4 Severe	H	PPE

RISK PHRASES: R21, Harmful in contact with skin; R36, Irritating to eyes; and R51, Toxic to aquatic organisms.

SAFETY PHRASES: S2, Keep out of reach of children; S9, Keep container in a well-ventilated place; S25, Avoid contact with eye; S36, Wear suitable protective clothing; S37, Wear suitable gloves; S38, In case of insufficient ventilation, wear suitable respiratory equipment; S39, Wear eye/face protection; S61, Avoid release to the environment; and S62, If swallowed, do not induce

REASON FOR ISSUE: New International ANSI Z400 format.

APPROVAL DATE: 06/15/2011

PREPARED BY: Dennis Belau

REVIEWED BY: Jack Firkins

DBelau@comcast.net

Abbreviations

AICS	Australian Inventory of Chemical Substances
CAS#	Chemical Abstract Service Number
°C	Celsius temperature scale
CI	China
DSL	Canada Domestic Substances List
ECL	Korean Existing Chemicals List
EEC	European Economic Commission
ENCS	Japanese existing Chemical List
EINECS #	European Inventory of Existing Chemical Substance Number
EU	European Union

(Israel)	2001 proposed list of chemical substances to be regulated under Israel Hazardous Substances Law and Regulations List of 1993
MAC	Netherlands
MAK	Germany
MITI	Ministry of International Trade and Industry
NA	Not Applicable
ND	Not Determined
NE	Not Established
PICCS	Philippines
PPE	Personal Protective Equipment
Prop	Proprietary
SWISS	Giftliste 1 and Inventory of Notified New Substances
TSCA	Toxic Substances Control Act
(Taiwan)	List of Toxic Chemical Substances regulated under Taiwan Toxic Chemical Substances Control Act of November 26, 1986
UK	United Kingdom
USA	United States of America

Disclaimer

This information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particulars purposes. In no event shall Willowood LLC be liable for any claims, losses or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, how so ever arising, even if company has been advised of the possibility of such damages