

MATERIAL SAFETY DATA SHEET

Emergency Phone: CHEMTREC 800-424-9300

Effective Date: September 10, 2011

Replaces: MSDS of June 24, 2011

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Willowood Pronamide 3.3SC

CHEMICAL NAME: Propyzamide (Pronamide) (3,5-dichloro-N-[1,1-dimethyl-2-propynyl]-benzamide)

CHEMICAL FAMILY: Benzamide Herbicide

EPA REG. NO. 87290-22

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 #	%
Propyzamide (Pronamide)	23950-58-5	245-951-4	35.6
Kaolin	1332-58-7	310-194-1	> 1.4
Titanium dioxide	13463-67-7	236-675-5	> 1.0
Silica, crystalline	14808-60-7	215-684-8	> 0.4
Inert ingredients	NE	NE	Balance

3. HAZARDS IDENTIFICATION SUMMARY:

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

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

The product may cause eye and skin irritation. This herbicide is moderately toxic to aquatic organisms.

POTENTIAL HEALTH EFFECTS:

ROUTES OF ENTRY: Eye and skin contact.

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

SKIN CONTACT: Prolonged exposure may cause redness to the skin.

EYE CONTACT: Mist may cause irritation to the eyes.

INGESTION: Very low toxicity, expect very little problem.

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

CARCINOGENICITY: Crystalline silica may cause cancer and pronamide has caused cancer in animal studies.

4. FIRST AID MEASURES:

INHALATION: Move the exposed person to fresh air free from risk of further exposure. If the person is 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. Call poison control center or doctor for treatment advice.

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 the exposed person is vomiting to minimize entry into the 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: Not flammable.

FLAMMABLE LIMITS: NE.

EXTINGUISHING METHOD: Use dry chemicals, carbon dioxide, or water spray.

FIRE OR EXPLOSION HAZARDS: This material under complete combustion will form oxides of carbon and nitrogen, and possibly hydrogen chloride.

SPECIAL FIREFIGHTING PROCEDURES: Keep upwind of fire. Firefighters - Use full emergency equipment with self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES:

SPILL OR LEAK PROCEDURES: Wear PPE. Avoid creating mist and then breathing the mist. Isolate the area and prevent material from getting into waterways.

Absorb the material with inert mineral material such as vermiculate. Sweep up and place the collected material in a closed container.

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

7. HANDLING AND STORAGE:

STORAGE TEMPERATURE: Keep containers tightly closed. Store in a cool, well-ventilated area.

SPECIAL SENSITIVITY: Avoid contact with skin and eyes. Wear PPE per Section 8.

HANDLING AND STORAGE PRECAUTIONS: Avoid breathing any of the 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 mist exposure to cause injury to the eyes.

SKIN PROTECTION: Wear chemically resistant gloves (for example, nitrile, butyl, or neoprene.) Wear long sleeved shirts, long pants, and shoes and socks.

RESPIRATORY PROTECTION: Wear a respirator if the airborne conditions result in a mist forming.

OCCUPATIONAL EXPOSURE LIMITS: Silica total dust - 15 mg/m³; titanium dioxide - 10 mg/m³.

ENGINEERING CONTROLS: Provide adequate ventilation in areas where the product is used.

9. PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL FORM: Liquid.

COLOR: Off-white.

ODOR: Slight odor.

pH: NA.

SOLUBILITY IN WATER: Emulsifies.

SPECIFIC GRAVITY (water=1): 1.13 @ 68 °F (20 °C)

10. STABILITY AND REACTIVITY:

STABILITY: This product is stable material under normal conditions of storage and handling.

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBLES: None known.

DECOMPOSITION PRODUCTS: Product is not flammable. The products of thermal decomposition are oxides of carbon and nitrogen. Thermal decomposition may also generate hydrogen chloride.

11. TOXICOLOGICAL INFORMATION:

The significant routes of exposure are eyes and skin.

Oral LD_{50(rat)} > 5,000 mg/kg; Dermal LD_{50(rat)} > 2,000 mg/kg; LC_{50(rat)} > 5.0 mg/L (4-hr test.)

There is limited evidence that propyzamide could have a carcinogenic effect in humans. The EC has classified Propyzamide as a category 3 carcinogen. The State of California has listed Propyzamide as a chemical known to the State of California to cause cancer. Propyzamide is not mutagenic or teratogenic.

12. ECOLOGICAL INFORMATION:

Propyzamide has low toxicity in fish, but is toxic to marine invertebrates and some other aquatic organisms, and may cause long-term adverse effects in aquatic environments. Propyzamide is not toxic to honeybees.

13. DISPOSAL CONSIDERATIONS:

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

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

14. TRANSPORT INFORMATION:

US DOT (ground) SHIPPING NAME: UN-Number 3082, Environmentally hazardous substance, liquid, N.O.S., DG Class 9, Packaging Group III. Not regulated for ground shipment, per 49 CFR Part 172.101(12)(iv).

IATA (air) SHIPPING NAME: UN-Number 3082, Environmentally hazardous substance, liquid, N.O.S., DG Class 9, Packaging Group III. Not regulated for air shipment.

IMO (water) SHIPPING NAME: UN-Number 3082, Environmentally hazardous substance, liquid, N.O.S., DG Class 9, Packaging Group III. Not regulated for water shipment.

15. REGULATORY INFORMATION:

OSHA STATUS: Propyzamide. (Pronamide)

TSCA STATUS: Not listed.

CERCLA REPORTABLE QUANTITY: Pronamide (CAS # 23950-58-5), 5000 pounds.

CALIFORNIA PROPOSITION 65: Pronamide and crystalline silica are known to the State of California to cause cancer.

RCRA STATUS: U193 for pronamide.

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 313 TOXIC CHEMICALS: Pronamide.

RIGHT TO KNOW: Pronamide and kaolin are listed in New Jersey and Pennsylvania.

16. OTHER INFORMATION:

National Fire Protection Association (NFPA)

Hazardous Materials Identification System (HMIS)

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

RISK PHRASES: R21, Harmful in contact with skin; R36, Irritating to eyes; R45, May cause cancer, 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 vomiting; seek medical advice immediately and show the container or product label to responding medical personnel.

REASON FOR ISSUE: Minor edits

APPROVAL DATE: 09/10/2011

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ABBREVIATIONS

ACGIH	American Conference of Governmental Industrial Hygienists
AICS	Australian Inventory of Chemical Substances
CAS#	Chemical Abstract Service Number
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
°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
FIFRA (Israel)	Federal Insecticide, Fungicide, and Rodenticide Act 2001 proposed list of chemical substances to be regulated under Israel Hazardous Substances Law and Regulations List of 1993
IARC	International Agency for Research on Cancer
MAC	Netherlands
MAK	Germany
MITI	Ministry of International Trade and Industry
NA	Not Applicable
ND	Not Determined
NE	Not Established
NIOSH	National Institute of Occupational Safety and Health
NPIC	National Pesticide Information Center
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Act
PICCS	Philippines
PPE	Personal Protective Equipment
Prop	Proprietary
SARA	Superfund Amendments and Reauthorization Act
SWISS	Giftlist 1 and Inventory of Notified New Substances
TSCA (Taiwan)	Toxic Substances Control Act 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

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