

MATERIAL SAFETY DATA SHEET

Emergency Phone: CHEMTREC 800-424-9300

Effective Date: May 31, 2014

Replaces: MSDS of October 31, 2012

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 REGISTRATION NUMBER: 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 only slightly toxic to fish and moderately toxic to many 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: Pronamide, Kaolin Clay, and Crystalline Silica are known to cause cancer to the States of California and New Jersey. 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 per Section 8. 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, dry, well-ventilated area above 32 °F. (0 °C.)

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 suspension.

COLOR: Off-white.

ODOR: Slight odor.

pH: NA.

SOLUBILITY IN WATER: Slightly soluble.

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 (Pronamide) could have a carcinogenic effect in humans. The EC has classified Propyzamide as a category 3 carcinogen. The States of California and New Jersey have listed Propyzamide, Kaolin Clay and Crystalline Silica as chemicals known to cause cancer. Propyzamide is not mutagenic or teratogenic.

12. ECOLOGICAL INFORMATION:

Propyzamide has low toxicity to fish, but is moderately 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 in accordance with all local, state, and federal regulations.

14. TRANSPORT INFORMATION:

US DOT (ground) SHIPPING NAME: UN-Number 3082, environmentally hazardous substance, liquid, N.O.S., DG Class 9; Packing Group III.

IATA (air) SHIPPING NAME: UN-Number 3082, environmentally hazardous substance, liquid, N.O.S., DG Class 9, Packing Group III.

IMO (water) SHIPPING NAME: UN-Number 3082, environmentally hazardous substance, liquid, N.O.S., DG Class 9, Packing Group III. Propyzamide is classified as a Marine Pollutant.

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, Kaolin Clay, and Crystalline Silica are known to the State of California to cause cancer.

NEW JERSEY: Pronamide, Kaolin Clay, and Crystalline Silica are known to the State of New Jersey to cause cancer.

RIGHT TO KNOW: Pronamide, Kaolin Clay, and Crystalline Silica are on the Pennsylvania, New Jersey, California, Massachusetts, Minnesota, and Florida Right-to-Know lists.

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.

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

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PREPARED BY: Jack Firkins

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	Federal Insecticide, Fungicide, and Rodenticide Act

(Israel)	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	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

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