

MATERIAL SAFETY DATA SHEET

Emergency Phone: CHEMTREC 800-424-9300

Effective Date: August 15, 2011

Replaces MSDS of March 4, 2011

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Willowood Spreader

COMPANY IDENTIFICATION:

Willowood, LLC
1600 NW Garden Valley Blvd., Suite 120
Roseburg, Oregon 97471
Tel: 877-679-9963

24/7 Health Emergencies: Call 800-858-7378 (National Pesticide Information Center)

2. COMPOSITION, INFORMATION OF INGREDIENTS:

Components

Name	CAS #.	EINECS #	Average % by Weight
Isopropyl alcohol	67-63-0	220-661-7	10%
Alkylaryl polyethyleneglycol	127087-87-0	NE	10%
Other glycols	NE	NE	70%
Constituents inactive as a spray adjuvant	NE	NE	10%

3. HAZARDS IDENTIFICATION SUMMARY:

EMERGENCY OVERVIEW: CAUTION! This product is a moderate eye irritant. It may irritate the skin, the respiratory system, and if swallowed, the throat and gastrointestinal system. Keep out of reach of children.

POTENTIAL HEALTH EFFECTS:

ROUTES OF EXPOSURE: Inhalation, Skin Contact, Skin Absorption, Eye Contact,

INHALATION: Exposure to the vapor or mist may cause upper respiratory irritation.

SKIN CONTACT: Slightly irritating.

EYE CONTACT: Vapor or mist may cause redness and tearing to the eyes.

INGESTION: Harmful if swallowed.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: May cause upper respiratory irritation, gastrointestinal irritation, skin irritation, and eye irritation.

CARCINOGENICITY: Not listed by NTP or IARC. Not regulated as a carcinogen by OSHA.

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 give artificial respiration. 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: Remove contaminated clothing. Rinse area with clean water for 15-20 minutes. Then call the poison control center or a 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.

5. FIRE FIGHTING MEASURES:

FLASHPOINT: > 100 °F (38 °C)

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

FIRE OR EXPLOSION HAZARDS: This material under complete combustion will form oxides of carbon.

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

6. ACCIDENTAL RELEASE MEASURES:

SPILL OR LEAK PROCEDURES: Wear PPE. Avoid breathing vapor or mist. 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 spill area with small amounts of soap and water.

7. HANDLING AND STORAGE:

STORAGE TEMPERATURE: Keep containers tightly closed and above freezing. Store in a cool dry area.

SPECIAL SENSITIVITY: Avoid contact with skin and eyes, Wear PPE per 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 goggles. There is potential for vapor or mist exposure to cause injury to the eyes.

SKIN PROTECTION: Wear chemically resistant gloves (e. g. nitrile, butyl, or neoprene.) Wear a long sleeved shirt, long pants, and shoes and socks.

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

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: Clear to slightly yellow

ODOR: Very little odor.

SOLUBILITY IN WATER: Soluble.

FLASH POINT: > 100 °F (38 °C)

SPECIFIC GRAVITY (water=1): 0.87 @ 68 °F (20 °C.)

pH: Neutral

BOILING POINT: 159 °F (70°C)

10. STABILITY AND REACTIVITY:

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

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBLES: Avoid temperatures above 100 °F (38 °C). Avoid contact with strong oxidizers or bases.

DECOMPOSITION PRODUCTS: This product will burn. The products of complete combustion are oxides of carbon.

11. TOXICOLOGICAL INFORMATION:

Willowood Spreader is a moderate eye irritant and mild skin irritant
The significant routes of exposure are eyes, skin, inhalation, and ingestion.

12. ECOLOGICAL INFORMATION:

Product may be toxic to some aquatic organisms.

13. DISPOSAL CONSIDERATIONS:

WASTE DISPOSAL METHOD: This material is a liquid. Wear vapor or mist respirator and other recommended PPE to dispose of the material. Dispose of in accordance with the regulations of local, state, and federal regulatory agencies.

14. TRANSPORT INFORMATION:

US DOT (ground) SHIPPING NAME:

UN-1993, Flammable liquid, N.O.S. (isopropyl alcohol); DG Class 3; Packing Group III.

IATA (air) SHIPPING NAME: CARGO AIRCRAFT ONLY

UN-1993, Flammable liquid, N.O.S. (isopropyl alcohol); DG Class 3; Packing Group III. Use packing instruction 310 with maximum capacity per package of 183.3 gallons (220 liters).

IMO (water) SHIPPING NAME:

UN-1993, Flammable liquid, N.O.S. (isopropyl alcohol); DG Class 3; Packing Group III
Use packing instructions of P001 and LP01

15. REGULATORY INFORMATION:

OSHA STATUS: Flammable

TSCA STATUS: All components are exempted.

CERCLA REPORTABLE QUANTITY: None

CALIFORNIA PROPOSITION 65: Not regulated under California Proposition 65.

RCRA STATUS: Not regulated under RCRA

SARA 311/312 HAZARD NOTIFICATION/REPORTING

IMMEDIATE Y **FIRE** Y **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: Isopropyl alcohol

16. OTHER INFORMATION:

National Fire Protection Association (NFPA)/Hazardous Materials Identification System (HMIS)

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

RISK PHRASES: R10, Flammable; R20, Harmful by inhalation; R21, Harmful in contact with skin; R22, harmful if swallowed; R34, Causes burns; R36, Irritating to eyes; and R37, Irritating to respiratory system; and R38, Irritating to skin.

SAFETY PHRASES: S2, Keep out of reach of children; S9, keep container in a well-ventilated place; S15, Keep away from heat; S23, Do not breathe vapors; S24, Avoid contact with skin; 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; and S62, If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

SECTION XVI – ABBREVIATIONS /DISCLAIMER

REASON FOR ISSUE: Updated Willowood USA contact Information.

APPROVAL DATE: 08/15/2011

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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

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