

MATERIAL SAFETY DATA SHEET

Emergency Phone: CHEMTREC 800-424-9300

Effective Date: June 15, 2011

Replaces MSDS of March 11, 2011

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Willowood Imidacloprid 4SC

CHEMICAL FAMILY: Neonicotinoid

EPA REG. NO. 87290-14

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 #	%
Imidacloprid	138261-41-3	428-040-8	40.7
Glycerine &	56-81-5	200-289-5	Balance
Other ingredients	Proprietary	Proprietary	

3. HAZARDS IDENTIFICATION SUMMARY:

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

EMERGENCY OVERVIEW: CAUTION! The product is irritating and environmentally hazardous substance.

The product may be harmful if it is inhaled or swallowed and void contact with eyes and skin. Avoid direct sunlight and extreme temperatures. This insecticide is toxic to aquatic organisms.

POTENTIAL HEALTH EFFECTS:

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

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

SKIN CONTACT: Harmful if absorbed through the skin.

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

INGESTION: Harmful if swallowed.

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

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 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: > 210°F (> 98.9 °C)

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

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

SPECIAL FIREFIGHTING PROCEDURES: Keep upwind of fire. Full emergency equipment with 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 vapour 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 area with small amounts of soap and water on the spill area.

7. HANDLING AND STORAGE:

STORAGE TEMPERATURE: Keep containers tightly closed above 32 °F (0°C). Keep in cool dry area. Provide a cool well-ventilated area.

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

HANDLING AND STORAGE PRECAUTIONS: Avoid breathing the vapour 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 vapour 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.

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: Opaque tan.

ODOR: Slight odor.

pH: 6.23

SOLUBILITY IN WATER: Dispersible.

SPECIFIC GRAVITY: 1.157 @ 75.2 °F (24°C)

10. STABILITY AND REACTIVITY:

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

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBLES: Avoid direct sunlight and extreme temperatures (Avoid freezing.)

DECOMPOSITION PRODUCTS: Product will burn and the products of complete combustion are oxides of carbon and nitrogen, hydrogen chloride and hydrogen cyanide.

11. TOXICOLOGICAL INFORMATION:

The significant routes of exposure are eyes, skin, ingestion and inhalation.

Oral LD_{50(rat)} = <4870 mg/kg Dermal LD_{50(rat)} = 4140 mg/kg LC_{50(rat)} = >0.53 mg/l (4-hour test)

12. ECOLOGICAL INFORMATION:

Product is toxic to aquatic organisms, invertebrates, birds and bees.

The product biodegrades over time.

13. DISPOSAL CONSIDERATIONS:

WASTE DISPOSAL METHOD: This material is liquid suspension, 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 IATA.

IMO (water)SHIPPING NAME:

UN3083, Environmentally Hazardous Substances, Liquid, N.O.S., (Imidacloprid), 9, III Marine Pollutant

15. REGULATORY INFORMATION:

OSHA STATUS: This product is not hazardous under the OSHA criteria.

TSCA STATUS: Not listed.

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 N SUDDEN RELEASE OF PRESSURE N
DELAYED N 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; None of the ingredients are listed in states of the United States.

WHMIS: Irritant (X)

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: R20, Harmful by inhalation; R21, Harmful in contact with skin; R22, harmful if swallowed; R36, Irritating to eyes; and R67, Vapors may cause drowsiness and dizziness.

SAFETY PHRASES: S2, keep out of reach of children; S9, keep container in a well-ventilated place; 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.

REASON FOR ISSUE: New International ANSI Z400 format.

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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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