

MATERIAL SAFETY DATA SHEET

Date-Issued: 03/06/2000

MSDS Ref. No: 002786

Date-Revised: 09/18/2002 BY SUBREGISTRANT

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: LILLY MILLER RHODODENDRON, ROSE & FLOWER DUST

PRODUCT DESCRIPTION: An Insecticide Dust containing Permethrin.

PRODUCT CODE: 09604400 EPA REG. NO. : 1021-1749-33116

DISTRIBUTED BY

LILLY MILLER BRANDS

PO BOX 2289

CLACKAMAS, OR 97015

Customer Service: 866-866-0301

CHEMTREC U.S. and CANADA: (800) 424-9300

CHEMTREC All Other Areas: (703) 527-3887

Emergency Phone 866-866-0301

For information regarding MEDICAL EMERGENCIES or PESTICIDE INCIDENTS, call the INTERNATIONAL POISON CENTER at 1-888-740-8712 24 hrs a day.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS#	EINECS #
Permethrin	0.25	052645-53-1	258-067-9

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: CAUTION Harmful if swallowed or inhaled. Avoid breathing dust. Avoid contact with eyes and skin. ALWAYS WEAR Safety glasses and other appropriate personal protective equipment when handling this material.

POTENTIAL HEALTH EFFECTS

EYES: Can cause temporary irritation, tearing and blurred vision.

SKIN: Prolonged or repeated exposure can cause irritation and reddening of the skin, possibly progressing into dermatitis.

SKIN ABSORPTION: Can be harmful if absorbed through skin.

INGESTION: Can cause stomach irritation, resulting in nausea, cramps and vomiting. Can cause nervous system disorders, such as fatigue, dizziness, headaches, lack of coordination, and tremors.

INHALATION: May be irritating to the respiratory tract.

4. FIRST AID MEASURES

EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

SKIN: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

INGESTION: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by a poison control center or doctor.

INHALATION: Remove affected person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible. Call a poison control center or doctor for further treatment advise.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: Not Applicable

FLAMMABLE CLASS: Non-combustible solid.

EXTINGUISHING MEDIA: Foam, carbon dioxide or dry chemical.

HAZARDOUS COMBUSTION PRODUCTS: This product is classified as noncombustible, however in the extreme temperatures that fires may produce, some of the constituents of this formula may combust to give off such gases as carbon dioxide, carbon monoxide.

FIRE FIGHTING PROCEDURES: Treat as an oil fire. Use a full-faced self-contained breathing apparatus along with full protective gear. Keep nearby containers and equipment cool with a water stream.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL:

Sweep into a container for reuse.

LARGE SPILL:

Scoop or shovel into containers for reuse.

7. HANDLING AND STORAGE

HANDLING:

Wear chemically impervious gloves such as neoprene and nitrile. Wear OSHA-approved safety glasses, goggles or face shield. Mechanical ventilation should be used when handling this product in enclosed spaces. Wearing a dust respirator is recommended in the presence of any dusts of this product. Do not contaminate water, feed or food by storage, handling or disposal. Read and observe all precautions and instructions on the label

STORAGE:

Store containers upright and closed. Store in areas that are cool, dry and well-ventilated. Keep away from heat, ignition sources and strong acids, bases and oxidizers. Emptied containers may retain product residues. Keep Away from Children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

EXPOSURE LIMITS

OSHA PELACGIH TLVSupplier OEL

ppmmg/m3ppmmg/m3ppmmg/m3

PermethrinTWA10

ENGINEERING CONTROLS: Mechanical ventilation should be used when handling this product in enclosed spaces. Local exhaust ventilation may be necessary.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear OSHA-approved safety glasses, goggles or face shield.

SKIN: Wear chemically impervious gloves such as Neoprene or Nitrile and protective clothing.

RESPIRATORY: Wear a NIOSH approved dust respirator in presence of dusts of this product.

PROTECTIVE CLOTHING: Wear chemically impervious gloves, such as neoprene or nitrile. Wear leather shoes and long pants and long sleeve shirt.

WORK HYGIENIC PRACTICES: DO NOT SMOKE, EAT OR DRINK OR APPLY COSMETICS IN WORK AREA! Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid

pH: 5.37@ 5% in water.

PERCENT VOLATILE: Negligible

VAPOR PRESSURE: Not Applicable.

VAPOR DENSITY: Not Applicable

BOILING POINT: Not Applicable

FREEZING POINT: Not Applicable

MELTING POINT: Not Available

SOLUBILITY IN WATER: Immiscible in water

DENSITY: .529 gm/ cc

SPECIFIC GRAVITY: Not Applicable

VISCOSITY: Not Applicable

10. STABILITY AND REACTIVITY

STABLE: YES

HAZARDOUS POLYMERIZATION: NO

CONDITIONS TO AVOID: Not compatible with strong acids or bases. Not compatible with strong oxidizers.

11. TOXICOLOGICAL INFORMATION

ACUTE

DERMAL LD50: >2000 mg/kg

Albino rabbit.

ORAL LD50: >5000 mg/kg

Albino rat.

INHALATION LC50: Meets requirements for EPA Toxicity Category IV for Inhalation toxicity.

EYE EFFECTS: Mildly irritating to both rinsed and unrinsed albino rabbit eyes.

SKIN EFFECTS: No irritation observed during study.

SENSITIZATION: Not Available.

COMMENTS: None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as being carcinogens.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: This product contains pyrethroids which are extremely toxic to fish and other aquatic invertebrates.

13. DISPOSAL CONSIDERATIONS

EMPTY CONTAINER: Do not reuse empty container. Wrap container in several layers of newspaper and discard in garbage.

RCRA/EPA WASTE INFORMATION: None of the ingredients in this product appear on the RCRA lists (40 CFR 261.24, 40CFR 251.33) or CERCLA Hazardous Substance list (40 CFR Part 302 Table 302.4)

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Insecticides, Insect or Animal Repellent, Solid, N.O.S.

PRIMARY HAZARD CLASS/DIVISION: Non-Hazardous

AIR (ICAO/IATA)

PROPER SHIPPING NAME: Insecticides, Insect or Animal Repellent, Solid, N.O.S.

PRIMARY HAZARD CLASS/DIVISION: Non-Hazardous

VESSEL (IMO/IMDG)

PROPER SHIPPING NAME: Not Available

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES:

FIRE: NO PRESSURE GENERATING: NO REACTIVITY: NO ACUTE: YES CHRONIC: NO

313 REPORTABLE INGREDIENTS:

This product contains no SARA Title 313 chemicals that exceed the reporting limits.

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: There are no SARA Title III Section 302 extremely hazardous substances present in this formulation. (40 CFR 355).

There are no components that are subject to emergency requirements under CERCLA Section 103(a)(40 CFR 302.4) in this formulation.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: All chemical substances found in this product comply with the Toxic Substances Control ACT inventory reporting requirements.

16. OTHER INFORMATION

REVISION SUMMARY

Revision #: 1

This MSDS replaces the March 06, 2000 MSDS. Any changes in information are as follows:

In Section 1

Product Code

In Section 3

Emergency Overview - Immediate Concerns (text) Chronic Effects (text)

Potential Health Effects - Skin (text)

In Section 4

Firstaid - Skin (text) Firstaid - Ingestion (text) Firstaid - Inhalation (text)

In Section 11

Eye Effects (text) Skin Effects (text) Dermal LD50 (Operator) Dermal LD50 (text) Dermal LD50 (Value) Dermal LD50 (Unit) Oral LD50 (text) Inhalation LC50 (text) IARC (text) Section 11 Footnotes NTP (text) Oral LD50 (Value) Oral LD50 (Unit) Inhalation LC50 (Operator) Oral LD50 (Operator)

In Section 13

Empty Container (text) Disposal (text)

In Section 15

Chronic

In Section 16

HMIS Health (chronic '*')

HMIS CODES

FIRE: 1 HEALTH: 1 REACTIVITY: 1

HMIS RATINGS NOTES: We assign HMIS ratings to this product based on the hazards of its ingredients(s). Since the customer is most aware of the applications and conditions of use, he must ensure that the proper personal protective equipment is provided consistent with the information contained in sections 7 and 8 of this MSDS.

COMMENTS: The data contained herein is based on information currently available to MGK Company, and believed to be factual and the opinions expressed to be those of qualified experts; however, this data is not to be taken as a warranty or representation for which MGK Company assumes legal responsibility.

MSDS Prepared by T.A. Lennan.