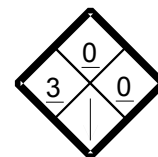


Lilly Miller Brands

| | |
|---------------------|---|
| Health Hazard | 2 |
| Fire Hazard | 0 |
| Reactivity | 0 |
| Personal Protection | B |

HMIS RATING

MATERIAL SAFETY DATA SHEET



NFPA RATING

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Lilly Miller (Hose 'n Go) Moss Out! for Roofs and Structures **MSDS Number:** LM-031
Generic Name: Moss eradicator **EPA Reg. No.:** 802-508
Manufacturer: Lilly Miller Brands **Revision Number:** 2
Address: PO Box 2289 **Date Issued:** 8/11/2004
Clackamas, OR 97015 **Manufacturer's Phone Number:** 503-451-4451

SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS Number | % | TLV | PEL |
|--|------------|----|----------------------------|----------------------------|
| Zinc chloride (zinc as metallic = 29.6%) | 7646-85-7 | 62 | 1 mg/m ³ (fume) | 1 mg/m ³ (fume) |
| Inert Non-hazardous ingredients | Mixture | 37 | N/D | N/D |
| Water | 7732-18-5 | 1 | None | None |

Key: TLV = ACGIH, 8 hr. time weighted average (TWA); PEL = OSHA permissible exposure limit.

SECTION III - HAZARDS IDENTIFICATION

Emergency Overview: This product is a corrosive chemical which can irritate the eyes, nose and throat. High levels of vapors can irritate and burn the lungs. Wash hands and exposed skin with soap and water after using this product.

HMIS Rating: Health: 2 Fire: 0 Reactivity: 0 Personal Protection: B

Potential Health Effects:

Routes of Entry: Inhalation, skin contact, eye contact, ingestion.

Inhalation: Exposure to may lead to irritation of the nose and throat. Inhalation of zinc chloride vapors in concentrations above the TLV/PEL may lead to headaches, hoarseness, coughing, chest pains, fever, nausea and vomiting.

Skin Contact: May cause burns, rashes, dermatitis (red, cracked, irritated skin) and ulceration depending on concentration and duration of exposure.

Eye Contact: Eye contact with zinc chloride solutions can lead to conjunctivitis and corneal burns due to corrosive nature of the material.

Ingestion: Zinc chloride is a poison when ingested in large quantities and may cause fever, nausea, stomach cramps or diarrhea and may be irritating to the G.I. system.

Medical Conditions Aggravated by Exposure: May aggravate existing upper respiratory irritation, and may aggravate pre-existing respiratory conditions and dermatitis.

Carcinogenicity: May cause mutagenic changes in living cells. Not listed as a carcinogen or mutagen by NTP or IARC. Not regulated as a carcinogen or mutagen by OSHA.

SECTION IV - FIRST AID MEASURES

Inhalation: Move to an area free from risk of further exposure. Treat symptomatically if required. Get medical attention.

Eye Contact: Flush with clean, lukewarm water at low pressure for a minimum of 15 minutes. Seek medical attention if irritation persists.

Skin Contact: Immediately begin decontamination by thoroughly washing affected area with soap and warm water. Remove contaminated clothing taking care not to contaminate eyes.

Ingestion: If this material is swallowed call a physician or poison control center immediately. Do not induce vomiting.

SECTION V - FIREFIGHTING MEASURES

NFPA Rating: Health: 3 Fire: 0 Reactivity: 0 Other: 0

Flash point and Method: This product is non-flammable

Extinguishing Method: Use dry chemical, CO₂, water spray or foam extinguishers.

Fire or Explosion Hazards: Poisonous gasses are produced under fire conditions including zinc oxide fumes and chlorine.

Special Firefighting Procedures: Not applicable.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Clean-up Procedures: Dike spills to avoid runoff and possible environmental contamination. Dry up liquid with an absorbent material such as kitty litter. Wrap waste in several of newspaper and discard in trash.

Personal Precautions: If misty or vaporous conditions exist, wear a face mask approved for use with dusts and mists such as 3M 8511 N-95 or equivalent.

Environmental Precautions: Keep major spills from entering lakes and waterways.

SECTION VII - HANDLING AND STORAGE

Storage Temperature: Not affected by extremes of ambient temperature.

Shelf Life: Not determined.

Special Sensitivity: None.

Handling and Storage Precautions: Avoid eye contact and avoid breathing vapors if generated. Good housekeeping is recommended to prevent the spillage and accumulation of liquid.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: If misty or vaporous conditions exist, wear a face mask approved for use with dusts and mists such as 3M 8511 N-95 or equivalent.

Eye Protection: Use safety goggles if there is potential for exposure to vapors which could cause severe injury to the eyes.

Skin Protection: Wear waterproof gloves and long sleeved shirt and long pants or coveralls.

Engineering Controls: This product is not to be used indoors.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: pale yellow liquid.

Odor: Negligible

Specific Gravity: N/D

Vapor Density: Less than air

pH: N/D

Solubility in Water: Soluble

% Volatile by Weight (VOC): Nil

SECTION X - REACTIVITY

Stability : This is stable material.

Hazardous Polymerization: Will not occur.

Incompatibilities: Potassium.

Decomposition Products: Chlorine compounds, zinc oxide.

SECTION XI - TOXICOLOGICAL/ECOLOGICAL INFORMATION

Ecological Concerns: Lilly Miller Moss Out! for Roofs and Structures is a moss eradicator. High concentrations can be toxic to fish and aquatic invertebrates. Do not apply directly to lakes, rivers or streams. Do not contaminate water sources when disposing of equipment washwater.

SECTION XII - DISPOSAL CONSIDERATIONS

Waste Disposal Method: Place empty container in trash or offer for recycling. Call 1-800-CLEANUP for disposal of partly filled container or waste. This product is toxic to fish and aquatic invertebrates. Do not apply directly to lakes, rivers or streams. Do not contaminate water sources when disposing of equipment washwater.

SECTION XIII - TRANSPORTATION INFORMATION

DOT Shipping Name: Zinc chloride, solution (pkg \geq 5.0L)

DOT Label: Corrosive (pkg \geq 5.0L)

ORM-D Consumer Commodity (pkg <5.0L)

Packaging Group: III (pkg \geq 5.0L)

DOT RQ: 1000 lbs. zinc chloride (pkg \geq 5.0L)

DOT Hazard Class: 8 (pkg \geq 5.0L)

UN/NA Number: 1840 (pkg \geq 5.0L)

SECTION XIV - REGULATORY INFORMATION

OSHA Status: This product is regulated under OSHA criteria.

EPA Reg. No.: 802-508

TSCA Status: All applicable chemicals are registered under TSCA.

CERCLA Reportable Quantity: 1000 zinc chloride.

SARA Title III: Regulated under SARA Title III.

Section 302, Extremely Hazardous: N/A

Section 311/312 Hazard Categories: Reportable.

Section 313 Toxic Chemicals: N/A

RCRA Status: Not regulated under RCRA

SECTION XV - APPROVALS

Reason for issue: Revised DOT section, MHickman

Approval Date: 8/11/2004

Prepared by: Compliance Consulting Group, Inc.
303-795-2060

Supersedes Date 12/11/2003

SECTION XVI - DISCLAIMER

As of the date of this document, the foregoing information is believed to be accurate and is provided in good faith to comply with applicable federal and state laws. However, no warranty or representation of law or fact, with respect to such information, is intended or given.