

Material Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Product Name: Lilly Miller Slug and Snail Bait Identifier: EPA REG. No. 8119-11-33116	Product ID #: PIN:
Distributor: Lilly Miller Brands, PO Box: 2289, Clackamas, OR 97015	Emergency Telephone Number: 1-800-858-7378
Proper Shipping Name: Agricultural Insecticide NOI, solid	
NFPA Rating: Health = 1; Fire = 0; Reactivity = 0	

Section 2 – Composition/Information on Ingredients

Hazardous Components	Percent in Product	CAS #	OSHA PEL	ACGIH TLV
Metaldehyde	3.25	9002-91-9	Not Determined	Not Determined

Section 3 - Health Hazard Data

Route(s) of Entry:	Inhalation? Yes	Skin? Yes	Ingestion? Yes
--------------------	-----------------	-----------	----------------

Eye Contact: May cause irritation.

Skin Contact: Repeated or prolonged skin contact may cause irritation.

Inhalation: Avoid breathing dusts.

Ingestion: This product contains Metaldehyde.

Non-Human Toxicology Data (For pure Metaldehyde):

Rat Oral LD50: 630 mg/kg

Dog Oral LD50: 250 mg/kg

Rat Dermal LD50: > 5000 mg/kg

Ames Test: Not mutagenic

LC50 Rainbow Trout: 75 mg/l

Carcinogenicity: No Data for Metaldehyde.	NTP: No Data	IARC Monographs: None for Metaldehyde.	OSHA Regulated: See Section 2
--	--------------	--	-------------------------------

Signs and Symptoms of Exposure: Metaldehyde over-dosage results in lethargy, severe abdominal pain, nausea, vomiting, diarrhea, hyperthermia, seizures, coma and death. Other effects have included renal tubular injury and liver necrosis. Onset is generally 1 to 3 hours.

Preexisting Conditions Aggravated by Exposure: Liver, kidney and nervous system

Emergency and First Aid Procedures:

If Swallowed: Call 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.

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

If On Skin or Clothing: 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.

If In 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.

Note to physician – According to HSDB, gastric lavage should be considered if potentially life-threatening levels of Metaldehyde have been ingested, if the procedure can be performed within one hour of ingestion. This procedure should be performed cautiously due to the possibility of convulsions, which are most likely to occur one hour or later after ingestion. Activated charcoal slurry (30 g charcoal per 240 ml water) may be administered, with the usual dose of 25 to 100 g in adults and adolescents, 25 to 50 g in 1 to 12 year old children, and 1 g/kg in infants under 1 year old. To control seizures, diazepam may be administered (5 to 10 mg repeated every 10 to 15 minutes as needed for adults and 0.2 to 0.5 mg/kg repeated every 5 minutes as needed for children), or lorazepam may be administered at 4 to 8 mg for adults and 0.05 to 0.1 mg/kg for children. If seizures persist or recur after 30 mg of diazepam has been administered to adults, or 10 mg has been administered to children age 5 or above, consider the use of phenobarbital and/or phenytoin or fosphenytoin. (the administration of diazepam or clonidine 20 minutes after ingestion of 1000 mg/kg of Metaldehyde by mice delayed the onset of symptoms and reduced mortality.) For acute inhalation overexposure, the patient should be monitored as respiratory failure may occur 24 to 48 hours after exposure.

Section 4 - Fire and Explosion Hazard Data

Flammability	Yes	Special Fire Fighting Methods:	None
Conditions of Flammability: Dusts may ignite explosively.			
Extinguishing Media: CO2, Foam, Dry chemical, Water			
Flash Point Metaldehyde	97 F *	Upper Flammable Limit	Not Available
Unusual Fire Hazards	Not Applicable	Lower Flammable Limit	Not Available
Auto ignition Temperature (°C)	Not Available	Explosion Data	Not Applicable
Sensitivity to Impact	Not Applicable	Sensitivity to Static Discharge	Not Applicable

Section 5 - Physical/Chemical Characteristics

Physical State	Meal	Specific Gravity (H ₂ O = 1)	Not Available
Vapor Pressure (mm Hg@ 25C)	11.03*	Melting Point	246C*
Vapor Density (AIR = 1)	6.06*	Evaporation Rate:	Not Available
Boiling Point	115 C*	Odor Threshold (mg/m3)	0.025*
pH	Not Available	Oct./H ₂ O partition coeff.	Not Available
Freezing point	Not Available	Solubility in Water (13 C) *	12% *
Appearance	Tan meal	Odor	Grain

Notes: * For pure Metaldehyde

Section 6 - Reactivity Data

Conditions to Avoid: Heat. Decomposition of pure Metaldehyde above 97 F. Decomposes to acetaldehyde and paraldehyde and further to acetic acid and acids.

Stability	Stable	Hazardous Polymerization	Will Not Occur
-----------	--------	--------------------------	----------------

Incompatibility (Materials to Avoid): Oxidizing agents, acids, bases.

Hazardous Decomposition or Byproducts: carbon oxides, aldehydes.

Section 7 – Personal Protection

Respiratory Protection: Not needed for outdoor use. If spill or dust generated use proper dust respirator.

Protective Gloves: Impervious gloves	Eye Protection Avoid eye contact. Use safety glasses.
---	--

Other Protective Clothing: Overalls or long pants and shirts as needed.

Section 8 – Accidental Release Measures

Spill Response: Sweep, don't wash. Wet floors become slippery. Take care not to generate dusts during sweeping. Wear protective gloves, eyewear and clothing. Use care not to contaminate area-use appropriate labeled containers. Follow appropriate OSHA (29 CFR 1910.120), state and local regulations.

Waste Disposal Method: Follow Federal, State and Local laws. Do not reuse containers.

Section 9 – Special Precautions / Handling

Storage Precautions: Store in cool, dry, locked area without direct sunlight in original container. Prevent exposure to children or pets. Avoid contamination of feed, seed, fertilizers and foodstuffs.

Work/Hygienic Practices: Avoid contact with eyes, skin or clothing. Avoid breathing dust. Clean contaminated clothing before reuse.

Section 10-Transportation Requirements

DOT Classifications:

Hazard Class: None

U.S. Surface Freight Class:

Agricultural Insecticide NOI

DOT Proper Shipping Name:

Not Regulated

Package Group: None

Label Code: None

DOT Placard: Not Applicable

UN Number: None

Regulations: 49CFR

Section 11-Other Information

Disclaimer Notice: The information in this MSDS was obtained from current and reliable sources. The data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond the control of Matsori, LLC, it is the responsibility of the user both to determine safe conditions for the use of this product and to assume liability for loss, damage or expense arising out of the improper use due to statements or omission in this MSDS. Various Governmental agencies (e.g. DOT, EPA, FDA etc.) may have specific policies concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in this MSDS. The user should review these regulations to insure full compliance.

Prepared by Skinner Associates-Consultants in Toxicology. (805) 238 1096. E-mail: skina1@tcsn.net 9/03