



SAFETY DATA SHEET

Martin's Gopher Bait 50

SECTION 1: IDENTIFICATION

Product Name: Martin's Gopher Bait 50
EPA Registration No.: 53883-23
Recommended Use: Rodenticide; See product label for a complete list of uses and use sites.
Restrictions on Use: See product label for any restrictions on the use of this product.
Chemical Family: Alkaloid
Chemical Name of Active Ingredient(s): Strychnine
Manufactured for: Control Solutions, Inc.
 5903 Genoa-Red Bluff
 Pasadena, TX 77507

FOR FIRE, SPILL, AND/OR LEAK EMERGENCIES CONTACT: CHEMTREC 1-800-424-9300
FOR MEDICAL EMERGENCIES AND HEALTH AND SAFETY INQUIRIES CONTACT: Safety Call 1-866-897-8050

SECTION 2: HAZARD(S) IDENTIFICATION

EMERGENCY OVERVIEW: Green colored milo with crystalline-alkaloid coating. Strychnine is a highly toxic convulsive poison.

OSHA HCS CLASSIFICATION (29 CFR 1910.1200)

Acute Oral Toxicity	Category 4
Eye Damage/Irritation	Category 2B
Skin Corrosion/Irritation	Category 2
Skin sensitization	Category 1B

Signal Word: WARNING



Hazard Statement(s): Harmful if swallowed.
 Causes eye irritation.
 Causes skin irritation.
 May cause an allergic skin reaction.

Precautionary Statement(s):

Prevention: Wash hands and any exposed skin thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Wear protective gloves/eye protection/face protection.
 Avoid breathing mist/vapors/spray.
 Contaminated work clothing must not be allowed out of the workplace.

Response: **IF SWALLOWED:** Immediately call a poison control center/doctor if you feel unwell. Specific treatment (see Section 4 for first aid). Rinse mouth.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Wash with plenty of water. Specific treatment (see Section 4 for first aid). If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Storage: No statement required. See section 7 for storage information.
Disposal: Dispose of contents/container in accordance with Federal, state and local laws and regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %
Strychnine	57-24-9	0.5%
Calcium carbonate (limestone)	417-34-1	1.0 – 1.5%
Grain dust	N/A	>1.0%

*Ingredients not listed or listed with a weight % range are considered a trade secret and are withheld under 29 CFR 1910.1200(i).

SECTION 4: FIRST AID MEASURES

IF IN EYES:	Hold eye open and rinse slowly and gently with water for 15 to 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.
IF ON SKIN:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
IF INHALED:	Move 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 advice.
IF INGESTED:	CALL PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. If less than ten (10) minutes have passed since poison was taken, give 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Repeat until vomit fluid is clear. Have patient lie down in quiet, darkened room and keep warm and quiet. If person is unconscious, do not give anything by mouth and do not induce vomiting.

Most important symptoms/effects, acute and delayed: Eye and skin irritation. Allergic skin reaction. If ingested, potential for convulsions/seizures and even death.

NOTE TO PHYSICIAN: (A) Administer 100% oxygen by positive pressure to provide as much pulmonary gas exchange as possible despite seizures. (B) Administer ANTICONVULSANT DRUGS intravenously to control convulsions. **NOTICE:** It may be difficult or impossible to stop the seizure activity without stopping respiration. Be prepared to maintain pulmonary ventilation mechanically. Tracheotomy may be necessary if seizures are prolonged.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Foam, dry chemical, carbon dioxide or water spray
Unsuitable Extinguishing Media: Water jet
Hazardous Combustion Products: Thermal decomposition may produce hazardous carbon and nitrogen oxides.
Special Protective Equipment & Precautions: Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Foam and/or dry chemical are preferred to minimize environmental contamination. If water is used, dike and collect water to prevent run-off. Wear self-contained breathing apparatus and full fire-fighting turn-out gear (Bunker gear).
Unusual Fire & Explosion Hazards: None known

SECTION 6: ACCIDENTAL RELEASE MEASURES

- Personal Precautions:** See Section 8 for personal protection equipment.
- Environmental Precautions:** Keep spilled material and any rinsate from contaminating soil or from entering sewage and drainage systems and bodies of water.
- Methods for Containment:** Isolate the spill area. Keep unnecessary and unprotected personnel from entering. Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify and scrape up for disposal.
- Methods for Clean-up:** Place contaminated material in appropriate container for disposal. After removal, flush contaminated area thoroughly with water. Pick up wash liquid with additional absorbent and place in a disposable container. Do not put spilled material back in the original container.
- Other Information:** None known

SECTION 7: HANDLING AND STORAGE

- Handling:** RECOMMENDATIONS ARE INTENDED FOR MANUFACTURING, PACKAGING AND COMMERCIAL BLENDING WORKERS. PESTICIDE APPLICATORS AND WORKERS must refer to the product label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Handle and open container in a manner as to prevent spillage. Do not eat, drink or smoke while handling this product. Any spilled bait must be cleaned up immediately.
- Storage:** **See pesticide label for full information on product storage.** Do not contaminate water, food or feed by storage of this product. Store away from sources of heat, out of direct sunlight and away from incompatible materials. Pesticides should be stored in secured areas away from children and animals. Store in a secured area.
- Storage Temperature (Min/Max):** Not determined
- Product Incompatibilities:** Strong acids and oxidizing materials.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Users of a pesticide product must refer to the product label for personal protective equipment requirements.

Exposure Guidelines:

COMPONENT	OSHA PEL	ACGIH TLV	NIOSH REL
Strychnine	0.15 mg/m ³ (TWA)	0.15 mg/m ³ (TWA)	0.15 mg/m ³ (TWA)
Calcium carbonate	15 mg/m ³ (TWA – total dust)		10 mg/m ³ (TWA – total dust)
	5 mg//m ³ (TWA – resp.)		5 mg//m ³ (TWA – resp.)
Grain dust	10 mg/m ³ (TWA)		

- Engineering Controls:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.

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Respiratory Protection:	In areas of poor ventilation, use a NIOSH approved respirator with cartridges/canisters approved for general particulates.
Eye Protection:	Chemical goggles or safety glasses and full-face shield.
Protective Gloves:	Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile, neoprene rubber, polyvinyl chloride (PVC) or Viton.
Other Protective Clothing:	Long-sleeved shirt, long pants and chemical resistant footwear plus socks.
General Safety Measures:	Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately after handling this product. Wash outside of gloves before removing. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Green milo (solid)	Upper/Lower Flammability Limits:	Not determined
Odor:	No odor	Vapor Pressure:	Not determined
Odor Threshold:	Not determined	Vapor Density:	Not determined
pH (5% Solution):	6.95	Bulk Density:	42 lbs/ft ³
Melting /Freezing Point:	Not determined	Solubility:	Not determined
Boiling Point/Range:	Not determined	Partition Coefficient:	Not determined
Flash Point:	Not applicable	Auto-ignition Temperature:	Not determined
Evaporation Rate:	Not determined	Decomposition Temperature:	Not determined
Flammability:	Not applicable	Viscosity:	Not applicable

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	No hazardous chemical reactions known.
Chemical Stability:	Stable under normal storage and handling conditions.
Possibility of Hazardous Reactions:	No potential for hazardous reactions known.
Conditions to Avoid:	Excessive heat
Incompatible Materials:	Strong acids, bases and oxidizing materials.
Hazardous Decomposition Products:	Thermal decomposition may produce hazardous Carbon and Nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:	Eye contact, Skin contact, Inhalation, Ingestion
Symptoms of Exposure:	Eye and skin irritation. Allergic skin reaction. If ingested, potential for convulsions/seizures and even death.
Oral LD₅₀:	659 mg/kg (rat)(Highly toxic convulsive poison); based upon a similar product
Dermal LD₅₀:	>2,000 mg/kg (rat); based upon a similar product
Inhalation LC₅₀:	None expected but dust may cause mild irritation of nasal mucous membranes.
Eye Irritation/Damage:	Causes moderate but temporary irritation; based upon a similar product
Skin Corrosion/Irritation:	Causes moderate irritation; based upon a similar product
Skin Sensitization:	Skin sensitizer (Guinea Pig); based upon a similar product

Chronic/Subchronic Toxicity: No data available
 Mutagenicity: No data available
 Reproductive Toxicity: No data available
 Neurotoxicity: No data available
 Target Organs: No data available
 Aspiration Hazard: No data available
 Carcinogenicity:

Chemical Name	ACGIH	IARC	NTP	OSHA
None listed				

SECTION 12: ECOLOGICAL INFORMATION

Environmental Hazards Statement from FIFRA Regulated Pesticide Label:

This product is toxic to fish, birds and other wildlife. Do not allow bait to be exposed on soil surface. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of wastes.

ECOTOXICITY DATA:

The data presented below is that of strychnine technical.

Fish Toxicity: Bluegill 96 hr LC₅₀ = 0.76 mg/L
 Rainbow trout 96 hr LC₅₀ = 2.3 mg/L
Aquatic Invertebrate Toxicity: Daphnia magna 48 hr EC₅₀ = 10 mg/L
Aquatic Plant Toxicity: Mecoprop-p Dimethylamine salt:
 Green algae 72 hr EC₅₀ = 100 mg/L
Avian Toxicity: Northern Bobwhite Quail 8-Day NOEC = 3,536 ppm
 Mallard Duck 8-Day NOEC = 212 ppm
Honeybee Toxicity: No data available

ENVIRONMENTAL EFFECTS:

Persistence and Degradability: When released into the soil, this material has the potential to photolyze on soil surfaces. Volatilization and chemical hydrolysis are not expected to be important fate processes. When released into water, this material has the potential to photolyze.
Bioaccumulation: No data available
Mobility: No data available
Other Adverse Effects: No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: **Refer to the pesticide label for full information on disposal.** Pesticide wastes are toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of Federal law. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.
Container Disposal: **Refer to the pesticide label for full information on disposal.** When possible, triple rinse the container and offer for recycling if available.
RCRA Characteristics: It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

SECTION 14: TRANSPORTATION INFORMATION

DOT Packages less than 2000 lbs are not regulated. For packages greater than or equal to 2000 lbs:
(Ground): UN3077, Environmentally hazardous substances, solid, n.o.s (strychnine), 9, PG III, RQ
IMDG
(Sea): Not regulated
IATA
(Air): Not regulated

SECTION 15: REGULATORY INFORMATION

Labeling Requirements Under FIFRA: This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

DANGER

Convulsive Poison! Fatal if swallowed or inhaled. Harmful if absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin. Do not breathe dust. Do not apply this product in a way that will contact any person or pet. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash clothing before reuse.

TSCA Inventory: This product is exempt from TSCA inventory listing requirements as it is solely for FIFRA regulated use.

SARA Title III Information:

Section 302 – Extremely hazardous substances: Strychnine (CAS #57-24-9)
Section 311/312 – Hazard Categories: Acute (Immediate); Delayed (Chronic)
Section 313 – This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS Number	Weight %
Strychnine	57-24-9	0.5%

CERCLA – This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Chemical Name	CAS Number	RQ	Quantity of Finished Product
Strychnine	57-24-9	10 lbs	2000 lbs

CALIFORNIA PROPOSITION 65:

Chemical Name	CAS Number	Prop 65 Category(ies)
None listed		

U.S. STATE RIGHT-TO-KNOW REGULATIONS:

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Strychnine	X	X	X
Calcium carbonate	X		X

SECTION 16: OTHER INFORMATION

NFPA	Health Hazards 2	Flammability 1	Instability 0	Special Hazards – None
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Revision Note: Corrected typographical error in Section 3