

MATERIAL SAFETY DATA SHEET

MVG

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: I Must Garden Mole & Vole Repellent (Granular)
TRADE NAME: I Must Garden Mole & Vole Repellent (Granular)
CHEMICAL FAMILY: Mixed biological substances
MANUFACTURER: **I Must Garden, LLC**

REVISION DATE: 10 Oct 2011
GENERAL USE: Mole & Vole Repellent
PRODUCT DESCRIPTION: Granular product with characteristic odor.
TELEPHONE NUMBER (General Inquiries) 1-877-446-2929 / 1-919-929-2299 Locally

ADDRESS : 1289 N. Fordham Blvd, Chapel Hill, NC 27514 COUNTRY: USA

EMERGENCY TELEPHONE NUMBERS: 1-877-446-2929 United States (Toll Free) 919-929-2299 Internationally and Local Calls

SECTION 2 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Ingestion may cause gastric and/or intestinal discomfort. May cause mechanical and/or chemical irritation to eyes. Irritation to skin may occur with prolonged or repeated exposures. Product has low overall toxicity. Product is safe for use near bodies of water when used as directed. Avoid generation and inhalation of dusts from this product. **I Must Garden represents that this product qualifies for exemption from registration under the Federal Insecticide, Fungicide, and Rodenticide Act.**

US DOT HAZARD SYMBOL(S) **NONE – Non-hazardous for transport**

HMIS HAZARD RATINGS: 0 = INSIGNIFICANT, 1 = SLIGHT, 2 = MODERATE, 3 = HIGH, 4 = EXTREME **HEALTH: 1, FLAMMABILITY: 0, PHYSICAL HAZARD: 0**

REQUIRED PERSONAL PROTECTIVE EQUIPMENT: HMIS PERSONAL PROTECTIVE EQUIPMENT LETTER: **B Safety glasses and gloves should be worn during product use.**

POTENTIAL HEALTH EFFECTS

INHALATION: Coughing may occur from exposure to dust. In unusual cases, inhalation of dusts may illicit an allergic response in susceptible individuals.

SKIN: May be slightly irritating to skin, mainly from prolonged or repeated exposures.

EYES: May cause chemical irritation and mechanical abrasion to eye surfaces from dust particles or direct contact.

INGESTION: May cause alimentary tract disturbances; symptomology may include nausea, vomiting, and diarrhea.

CARCINOGENICITY: NTP? **NO** IARC MONOGRAPHS? **NO** OSHA REGULATED? **NO** CALIFORNIA, Prop. 65? **NO** ESIS NOTATION? **NO**

SECTION 3 – INFORMATION ON PRODUCT COMPOSITION

| Component | % (by weight) | CAS # |
|-------------------|---------------|-----------|
| Castor Oil | 20.00% | 8001-79-4 |
| Mint Oil | 0.75% | 8030-01-1 |
| Cedar Oil | 0.50% | 8007-20-3 |
| Inert Ingredients | QS | NA |

NOTES: This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS). Hazard symbols and risk phrases are based on maximum listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS) and are considered trade secrets under US Federal Law (29CFR and 40CFR), Canadian Law (Health Canada Legislation).

SECTION 4 – FIRST AID MEASURES

INHALATION: If irritation occurs, remove victim to fresh air until coughing subsides. In the unusual case of wheezing or persistent coughing, seek medical attention.

EYES: If in eyes, hold eye open and rinse slowly and gently with potable water for at least 15 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eyes.

SKIN: Wash thoroughly with soap and water, no further first aid should be required.

INGESTION: If ingested in large amounts and victim is conscious and able to swallow, have victim drink water to dilute. Call a physician or Poison Control Center. Never give anything by mouth if a victim is unconscious or having convulsions. Induce vomiting only if advised by a physician or Poison Control Center. **Note to physician: Gastric Lavage with activated charcoal is acceptable treatment where warranted.**

SECTION 5 – FIRE FIGHTING MEASURES

GENERAL HAZARDS: Product is combustible under fire conditions. Products of combustion include compounds of carbon, hydrogen, nitrogen, sulfur and oxygen, including Carbon Monoxide

EXTINGUISHING MEDIA: Water fog, carbon dioxide and dry chemical.

FIRE FIGHTING PROCEDURES: Wear Self-Contained Breathing Apparatus when fighting fires involving any chemical product.

UNUSUAL FIRE AND EXPLOSION HAZARDS:None

HAZARDOUS COMBUSTION PRODUCTS: Carbon compounds and oxides, nitrogen compounds and oxides, sulfur compounds and oxides, phosphorous compounds and oxides.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Sweep or shovel up material and discard or reclaim; area may be rinsed with water or washed with soap and water as needed.

SECTION 7 – HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures. Store in a cool, dark, dry location, avoiding direct sunlight. Keep this and all lawn and garden products out of the reach of children.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

| Component | CAS # | ACGIH Exposure Limits | OSHA Exposure Limits |
|-------------------|-----------|--------------------------------|--------------------------------|
| | | (mg/m3 unless otherwise noted) | (mg/m3 unless otherwise noted) |
| Castor Oil | 8001-79-4 | NE | NE |
| Mint Oil | 8030-01-1 | NE | NE |
| Cedar Oil | 8007-20-3 | NE | NE |
| Inert Ingredients | NA | NA | NA |

PERSONAL PROTECTION

RESPIRATORY PROTECTION: Not required during normal use; wear self-contained breathing apparatus for firefighting.

PROTECTIVE GLOVES: None required unless irritation occurs. For susceptible personnel, wear nitrile or neoprene gloves.

EYE PROTECTION: Safety glasses or goggles should be worn as good practice.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Not Required

WORK / HYGIENIC PRACTICES: Wash hands after use, and before drinking/eating/smoking. Remove contaminated clothing and launder.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Granular solid with characteristic odor
MELTING POINT: Not Determined
FLAMMABLE LIMITS: LEL: ND UEL: ND
VAPOR PRESSURE: Not Determined
SOLUBILITY IN WATER: Miscible
VAPOR DENSITY (AIR = 1): Not Determined
VOLATILE ORGANIC COMPOUND (VOC) INFORMATION: None established

pH: Slightly acidic
FLASH POINT: Not Applicable
AUTOIGNITION TEMPERATURE: Not Determined
SPECIFIC GRAVITY (WATER = 1): Not Determined
VISCOSITY: Not Determined
EVAPORATION RATE (WATER = 1): Not Determined
NOTES: None

SECTION 10 - STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions
CONDITIONS TO AVOID: Extreme temperatures, direct sunlight, keep from freezing
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Carbon compounds and oxides, nitrogen compounds and oxides, sulfur compounds and oxides, phosphorous compounds and oxides - under fire conditions.
HAZARDOUS POLYMERIZATION: Will not occur.
CONDITIONS TO AVOID: None related to hazardous polymerization.

SECTION 11 - TOXICOLOGICAL INFORMATION

Complete Product

| | |
|-----------------|--|
| Oral LD50 | Product is likely to be a gastro-intestinal irritant. |
| Dermal LD50 | Not known - product may be slightly irritating by contact with skin. |
| Inhalation LC50 | Not known - product may be a mild irritant to the respiratory tract. |
| Irritation | Chemical and mechanical irritant to eyes; possible irritant to skin and respiratory tract. |

Product Components

| Component | CAS# | LD50 of Ingredient (Oral, Rat – Unless otherwise specified) | LC50 of Ingredient (Inhalation, Rat – unless otherwise specified) |
|-------------------|-----------|--|--|
| Castor Oil | 8001-79-4 | NE | NE |
| Mint Oil | 8030-01-1 | NE | NE |
| Cedar Oil | 8007-20-3 | NE | NE |
| Inert Ingredients | NA | NA | NA |

SECTION 12 - ECOLOGICAL INFORMATION

Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system. The ingredients used in this product are biodegradable. None of the ingredients in this mixture are classified as a Marine Pollutant.

SECTION 13 - DISPOSAL CONSIDERATIONS

Product is classified as non-hazardous. Consult your local, state, or the Federal Environmental Protection Agency before disposing of any chemicals.

SECTION 14 - TRANSPORT INFORMATION

| | |
|--|-------------------------------------|
| PROPER SHIPPING NAME: Not Regulated | DOT HAZARD CLASS / Pack Group: None |
| REFERENCE: 49 CFR 170-177 | UN / NA IDENTIFICATION NUMBER: None |
| LABEL: None | HAZARD SYMBOLS: None |
| IATA HAZARD CLASS / Pack Group: None | IMDG HAZARD CLASS: None |
| RID/ADR Dangerous Goods Code: None | UN TDG Class / Pack Group: None |
| Hazard Identification Number (HIN): None | |

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

SECTION 15 - REGULATORY INFORMATION

TSCA (USA - Toxic Substance Control Act): All components are listed.
SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):
Acute Health: NO Fire: NO Reactive: NO Chronic Health: NO Sudden Release of Pressure: NO
SARA 313 REPORTABLE INGREDIENTS: None
CERCLA (USA - Comprehensive Response Compensation and Liability Act): No components with an RQ.
California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: No Reportable Components.
CPR (Canadian Controlled Products Regulations): Not Controlled per WHMIS.
IDL (Canadian Ingredient Disclosure List): Non-Hazardous - No Disclosure Required.
DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List): Listed on NDSL

SECTION 16 - OTHER INFORMATION

Legend:

| | |
|-------|---|
| ACGIH | American Congress of Government Industrial Hygienists |
| CAS | Chemical Abstracts Service |
| HMIS | Hazardous Materials Identification System |
| IARC | International Agency for Research on Cancer |
| NA | Not Available ND Not Determined |
| NE | Not Established NR Not Reported |
| NIOSH | National Institute for Occupational Safety and Health |
| NTP | National Toxicology Program |
| OSHA | Occupational Safety and Health Administration |