

SAFETY DATA SHEET

Section 1 – Product and Company Information

Product Name: Mole & Vole MACE

Trade Name: Mole & Vole MACE

Chemical Family: Botanical

Manufacturer: Nature's MACE

Address: 267 Main St, Blakely, PA 18447

Emergency Telephone Numbers: 800-760-0544 United States (Toll Free) 570-307-0179 International and Local Calls

Revision Date: 6 January 2021

General Use: Animal Repellent

Product Description: Pale Brown/Mild Odor

Telephone Number: 1-800-760-0544 / 570-307-0179

Section 2 – Hazard Identification

Emergency Overview: Ingestion may cause some gastric and/or intestinal distress. May cause mild irritation to eyes. Irritation to skin may occur - primarily from prolonged or repeated exposures. Product has low overall toxicity. Product is safe for use near bodies of water when used as directed. Nature's MACE 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**: 0, FLAMMABILITY: 0, **PHYSICAL HAZARD**: 0

Required Personal Protective Equipment: HMIS PERSONAL PROTECTIVE EQUIPMENT LETTER: C Safety glasses, gloves and apron are suggested while spraying product.

Potential Health Effects:

Inhalation: No significant effect expected from a single short-term exposure, although mild irritation is possible.

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

Eyes: May cause eye irritation from direct contact.

Ingestion: Digestive tract disturbances may result from ingestion of large quantities. Short-term symptoms may include nausea, vomiting, and diarrhea.

Section 3 – Information on Product Composition

Material	CAS#	% (by weight)
Castor Oil	8001-79-4	100.00

NOTES: This 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 inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult medical personnel.

EYES: 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 five minutes, then continue rinsing eyes. Seek medical attention if irritation persists.

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:** Product has low oral toxicity; treatment should be supportive. Gastric Lavage with activated charcoal is acceptable treatment when large quantities of product are ingested.

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 SCBA when fighting fires involving any chemical product. Individual containers may rupture under fire conditions.

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: For small spills, wipe up with towel. Wash area with soap and plenty of water. For larger spills, soak up with approved absorbent (clay or diatomaceous earth is a good choice) and discard.

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 (mg/m3 unless otherwise noted)	OSHA Exposure Limits (mg/m3 unless otherwise noted)
Castor Oil	8001-79-4	NE	NE

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: Protective clothing is advisable during spraying. Wash basin is suggested for cleansing hands after use.

WORK / HYGIENIC PRACTICES: Wash hands after use. Remove all contaminated clothing and launder before re-use. Wash skin with soap and water

Section 9 – Physical and Chemical Properties

APPEARANCE AND ODOR: Pale Brown/Mild Odor	pH: Not Determined
MELTING POINT: Not Determined	FLASH POINT: >100°C (212°F) (Estimated)
FLAMMABLE LIMITS: LEL: ND UEL: ND	AUTOIGNITION TEMPERATURE: Not Determined
VAPOR PRESSURE: Not Determined	SPECIFIC GRAVITY (WATER = 1): Not Determined
SOLUBILITY IN WATER: Miscible	VISCOSITY: Not Determined
VAPOR DENSITY (AIR = 1): Not Determined	EVAPORATION RATE (WATER = 1): Not Determined
VOLATILE ORGANIC COMPOUND (VOC) INFORMATION: None established	NOTES: None

Section 10 – Physical and Chemical Properties

STABILITY: Stable under normal conditions

CONDITIONS TO AVOID: Extreme temperatures, direct sunlight, keep from freezing

INCOMPATIBILITY (MATERIALS TO AVOID): Water-reactive products, 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. Product may degrade into alcohol/organic acid mixture under direct sunlight for extended periods.

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	Probable irritant to eyes; possible irritant to skin and respiratory tract.

Component	CAS#	Product Components	
		LD50 of Ingredient (Oral, Rat–Unless otherwise specified)	LC50 of Ingredient (Inhalation, Rat–unless otherwise specified)
Castor Oil	8001-79-4	NE	NE

Primary eye irritation: Causes moderate eye irritation (EPA tox. category III)

Primary skin irritation: Non-irritating (EPA tox. category IV)

Acute dermal: LD50> 5000 mg/kg (EPA tox. category IV)

Acute inhalation: LC50> 2mg/L (EPA tox. category IV)

Acute oral: LD50>500 mg/kg (EPA tox. category III)

Chronic effects: No data available

Carcinogenicity: No data available

Mutagenicity: No data available

Reproductive effects: No data available

Teratogenicity: No data available

Ecotoxicity: No data available

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. 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

REFERENCE: 49 CFR 170-177

LABEL: None

IATA HAZARD CLASS / Pack Group: None

RID/ADR Dangerous Goods Code: 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.

DOT HAZARD CLASS / Pack Group: None

UN / NA IDENTIFICATION NUMBER: None

HAZARD SYMBOLS: None

IMDG HAZARD CLASS: None

UN TDG Class / Pack Group: None

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