

# Natural Forces, LLC

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## MATERIAL SAFETY DATA SHEET

### SECTION I - PRODUCT IDENTIFICATION

**PRODUCT NAME:** Oleotrol-M

**CHEMICAL NAME:** Refined vegetable oil and fatty acid

**FORMULA:** Emulsifiable Vegetable oil 45% Inert Ingredients: 55%

**CAS No.:** 8001-22-7

### SECTION II - PRECAUTIONARY LABELING

Avoid contact with eyes. Keep in tightly closed container. Wash thoroughly after handling.

### SECTION III - PHYSICAL DATA

**Appearance** : Yellowish oily liquid

**Acidity** : pH 6.7

**Boiling Point** : 97°C

**Freezing point:** -14°C

**Vapor Pressure** : N/A

**Vapor Density:** N/A

**Evaporation Rate:** N/A (Butyl Acetate = 1) Greater than 1

**Specific Gravity ( $H_2O = 1$ )** 1.0715 at 20°C.

**Flash Point (method used)** : >360°C (closed cup)

**Solubility in Water Not soluble:** Liquid Surface Tension (Est.) 25 Dyces/cm at 20° C.

### SECTION IV - FIRE AND EXPLOSION HAZARD INFORMATION

**FIRE HAZARD:** NO

#### **HANDLING PRECAUTIONS**

Use product with caution around heat, sparks, pilot lights, static electricity, and open flame.

#### **EXTINGUISHING MEDIA AND FIRE FIGHTING PROCEDURES**

Foam, water spray (fog), dry chemical, carbon dioxide and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this type of product, depending on size or potential size of fire and circumstances related to the situation. Plan fire protection and response strategy through consultation with local fire protection authorities or appropriate specialists.

The following procedures for this type of product are based on the recommendations in the National Fire Protection Association's "Fire Protection Guide on Hazardous Materials," Tenth Edition (1991):

Use water spray, dry chemical, foam or carbon dioxide to extinguish the fire. Use water to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for men attempting to stop a leak. Water spray may be used to flush spills away from exposures.

Minimize breathing of gases, vapor, fumes or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

#### **DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS**

Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products, in the case of incomplete combustion.

### **SECTION V - EMERGENCY AND FIRST AID PROCEDURES**

#### **EYE CONTACT**

If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call a physician.

#### **SKIN**

In case of skin contact, remove any contaminated clothing and wash skin with soap and water. Launder or dry-clean clothing before reuse. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high-pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

#### **INHALATION**

Vapor pressure is very low. Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor from hot product, immediately remove from exposure and call a physician. If breathing is irregular or has stopped, start resuscitation; administer oxygen, if available. If overexposed to oil mist, remove from further exposure until excessive oil mist condition subsides.

#### **INGESTION**

If ingested, DO NOT induce vomiting; call a physician immediately.

### **SECTION VI - HEALTH AND HAZARD INFORMATION**

#### **EFFECTS OF OVEREXPOSURE (Signs and symptoms of exposure)**

Prolonged or repeated skin contact may cause skin irritation.

#### **NATURE OF HAZARD AND TOXICITY INFORMATION**

In accordance with the current OSHA Hazard Communication Standard criteria, this product does not require a cancer hazard warning. This is because the product is formulated from base stocks, which are severely hydro-treated, severely solvent extracted, and/or processed by mild hydrotreatment and extraction. Alternatively, it may consist of components not otherwise affected by IARC criteria, such as atmospheric distillates or synthetically derived materials, and as such is not characterized by current IARC classification criteria.

Prolonged or repeated skin contact with this product tends to remove skin oils, possibly leading to irritation and dermatitis; however, based on human experience and available toxicological data, this product is judged to be neither a "corrosive" nor an "irritant" by OSHA criteria.

Product contacting the eyes may cause eye irritation. Product has a low order of acute oral and dermal toxicity, but minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

This product is judged to have an acute oral LD50 (rat) greater than 5 g/kg of body weight, and an acute dermal LD 50 (rabbit) greater than 4 g/kg of body weight.

#### **PRE-EXISTING MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY EXPOSURE**

None recognized.

#### **SECTION VII - REACTIVITY**

This product is stable and will not react violently with water. Hazardous polymerization will not occur. Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite, calcium hypochlorite, etc., as this presents a serious explosion hazard.

#### **SECTION VIII - ENVIRONMENTAL INFORMATION**

##### **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

Recover free product. Add sand, earth, or other suitable absorbent to spill area. Minimize skin contact. Keep product out of sewers and watercourses by drinking or impounding. Advise authorities if product has entered or may enter sewers, watercourses, or extensive land areas.

Assure conformity with applicable governmental regulations.

#### **SECTION IX - PROTECTION AND PRECAUTIONS**

##### **VENTILATION**

Use local exhaust to capture vapor, mists or fumes, if necessary. Provide ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. No smoking, or use of flame or other ignition sources.

##### **RESPIRATORY PROTECTION**

Use supplied-air respiratory protection in confined or enclosed spaces, if needed.

##### **PROTECTIVE GLOVES**

Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

##### **EYE PROTECTION**

Use splash goggles or face shield when eye contact may occur.

#### **SECTION X - DISCLAIMER**

The information contained herein is based on the data available to us and is believed to be correct as of the date prepared. Natural Forces LLC, however, makes no warranty, expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Natural Forces LLC and the seller disclaim liability for, and expect buyer to assume all risk for any claim or personnel injury or property damage or loss resulting from handling, storage, or use of this material not in accordance with the written directions. No other warranty exists.

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