

## Chapter 31 Material Safety Data for Oil Grinding

### **Rottler Reference No. 7609A / Goodson No. VGO-10 / VGO-50**

Complies with OSHA's Hazard Communication - Standard 29 CFR 1910.1200.

**DATE OF PREPARATION:** January 1, 2008 (Reviewed Jan 2008)

#### **1. CHEMICAL PRODUCT IDENTIFICATION**

**Part No. and Description:** ROTTLER Reference No. 7609A Valve Grinding Oil  
GOODSON Reference No. VGO-10 / VGO-50 Valve Grinding Oil  
Product Code: None

#### **2. COMPOSITION, INFORMATION ON INGREDIENTS**

Component(s) CAS # PEL TLV STEL %Wt.

Hydrotreated Light Naphthenic Base Oil 647-12-53-6 5 mg/m<sup>3</sup>8hrs 5 mg/m<sup>3</sup>8hrs 10 mg/m<sup>3</sup>10hrs 100 approx.

#### **3. HAZARDS INFORMATION**

**Hazards Rating:** Health 1, Fire 1, Reactivity 0

**EMERGENCY OVERVIEW:** May cause mild skin irritation and inflammation following extended contact!  
Avoid skin contact. Wash thoroughly after handling.

#### **POTENTIAL HEALTH EFFECTS**

**Eye:** No irritation is expected from short-term exposure.

**Skin:** Mild skin irritation may occur upon short-term exposure.

**Ingestion:** No significant adverse health effects are expected to occur under normal conditions of use.

**Inhalation:** Exposure to petroleum mist at high levels may be irritating to the nose, throat and lungs.  
Aspiration into lungs may cause lipid pneumonia.

#### **POTENTIAL HEALTH EFFECTS**

**Chronic (Cancer) Information:** Prolonged and repeated contact may produce mild to moderate irritation and inflammation.

Teratology (Birth Defect) Information: None known

Reproductive Information: None known

#### **4. FIRST AID MEASURES**

##### **FIRST AID PROCEDURES**

**Eyes:** Flush eyes with clean, low-pressure water for at least 15 minutes, occasionally lifting the eyelids. If pain or redness persists after flushing obtain medical attention.

**Skin:** Remove by wiping, the wash skin thoroughly with plenty of soap and water. Remove contaminated clothing and thoroughly clean before reuse. Discard contaminated leather gloves and shoes.

**Ingestion:** If more than a half-cup full of this material is swallowed, give quantities of water, do not induce vomiting, & obtain medical attention.

**Inhalation:** Vaporization is not expected at ambient temperatures and this material is not expected to be an inhalation problem under anticipated conditions of use. In case of overexposure, move person to fresh air.

**NOTE TO PHYSICIANS:** Supportive care. Treatment based on judgment of the physician response to reactions of the patient. May aggravate pre-existing respiratory conditions.

#### **5. FIRE FIGHTING MEASURES**

**Flash Point:** 270°F Method: ASTM D92

**Flammable limits in air:** Lower Flammable Limit: - 1.0 Upper Flammable Limit - 7.0

**Autoignition Temperature:** 600°F

**Hazardous Combustion Products:** Burning or excessive heating may produce carbon monoxide and other harmful gasses/vapors.

**Extinguishing Media:** Dry chemical and carbon dioxide. Foam and water fog are effective, but may cause frothing.

**Fire Fighting Instructions:** COMBUSTIBLE! OSHA/NFPA CLASS IIIB COMBUSTIBLE LIQUID. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment.

This may include self-contained breathing apparatus to protect against the hazardous effects of combustion products and oxygen deficiencies. If firefighters cannot work upwind to the fire, respiratory protective equipment must be worn. Cool tanks and containers exposed to fire with water.

## 6. ACCIDENTAL RELEASE MEASURES

**Small Spill:** Absorb spill with an inert material (e.g. dry sand or earth), then place in a chemical waste container.

**Large Spill:** Contain spill and prevent it from entering all water bodies, if possible. Safely stop flow of spill. Evacuate non-essential personnel from immediate spill area due to slipping hazards. In urban area, cleanup as soon as possible; In natural environments, cleanup on advice from ecologists. This material will float on water. Absorbent materials and pads can be used. Comply with all applicable laws. Spills may need to be reported to the National Response Center (800-424-8802).

## 7. HANDLING AND STORAGE

**Handling:** Keep away from heat, sparks and flame. Use of oil impervious gloves recommended.

**Storage:** KEEP OUT OF REACH OF CHILDREN! To avoid product degradation, water contamination should be avoided and minimum feasible handling temperatures should be maintained. Periods of exposure to high temperatures (GT 150°F) should be minimized. Product degradation might increase health hazard risks.

Storage Temperatures: Ambient Storage Pressure: Atmospheric

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Use adequate ventilation to keep oil mists of this material below applicable guideline(s) / standard(s).

**Respiratory Protection:** None is needed under anticipated use conditions with adequate ventilation. If exposure exceeds the occupational exposure limits, follow OSHA standards or equivalent and wear proper NIOSH/MSHA approved respiratory equipment.

Avoid prolonged and/or repeated skin contact, or wear impervious protective clothing. When leaving work, wash hands / exposed

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skin with soap and water.

**Eye Protection:** Wear eye protection. In the likelihood of splashing or spraying, and especially if material is hot (GT 100°F), wear goggles and/or face shield. Eye wash water should be available. Hard contact lenses must not be worn.

## 9. PHYSICAL AND CHEMICAL PROPERTIES (TYPICAL)

**Slightly Yellow Boiling Point:** GT 455°F Odor: Slight petroleum

**Solubility in Water:** Negligible Physical State: Liquid Specific Gravity: 0.87 - 0.90

**Vapor Pressure:** 0.1 mmHg at 70°F Vapor Density: Not determined Percent Volatile: Negligible Viscosity SUS @ 100°F: 55-65 (2.3 cSi @100°C)

## 10. STABILITY AND REACTIVITY

**Chemical Stability (Conditions to Avoid):** Stable - avoid extreme heat and open flame.

**Incompatibility:** Strong acids, alkalis and oxidizers such as liquid chlorine and oxygen.

**Hazardous Decomposition Products:** Carbon Monoxide and other harmful gases / vapors.

## 11. TOXICOLOGICAL INFORMATION

No specific information is available in our data base regarding the chronic toxic effects of this material for humans.

60 Pale Base Oil (Severely Hydrotreated Light Naphthenic Distillate)

**GAS (LC50):** Acute: 6.9 mg/L (Female Rat)

**GAS (LC50):** Acute: 10.5 mg/L (Male Rat)

**Oral (LD50):** Acute: GT 5,000 mg/kg (Rat screen level)

**Dermal (LD50):** Acute: GT 2,000 mg/kg (Rat screen level)

**Draize Eye:** Acute: Non-irritating (Rabbit)

**Buehler Dermal:** Acute: Mild skin irritant (Rabbit)

**28-Day Dermal:** Sub-Chronic to moderate skin irritant (Rabbit & Rat)

**Mutagenicity:** Modified Ames Assay - Negative (Salmonella) In-vitro SCE Ovary Assay - Negative (Chinese Hamster) In-vitro Lymphoma Assay - Positive (Mouse) The International Agency for Research on Cancer (IARC), one of the Occupational Safety and Health Association's (OSHA) authorities for establishing carcinogenic potential, has specifically evaluated Naphthenic Oils. IARC found that mildly hydrotreated (hydrofinished) naphthenic oils are carcinogenic to laboratory animals. IARC has NOT found severely hydrotreated naphthenic oils to be carcinogenic. This product is classified as severely (not mildly) hydrotreated under both IARC and OSHA definitions. A lifetime dermal application of this oil produce skin masses on mice which correlated with the skin irritation response levels of individual test animals. Additional studies attribute these masses to a weak promotional activity. These studies also showed that this product is not a mutagen, not a tumor initiator, and not a complete chemical carcinogen. Under normal anticipated condition of use, this product should not present a risk to human health.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicological Information:** The spilled material and any soil or water which it has contaminated may be hazardous to animal/aquatic life.

Chemical Fate Information: See Section 13.

## 13. DISPOSAL CONSIDERATIONS

Maximize product recovery for reuse or recycling. Conditions of use may cause this material to become a "Hazardous Waste", as defined by state or federal laws. Use approved treatment, transporters and disposal sites in compliance with all applicable laws.

If spill is introduced into a waste water treatment system, chemical and biological oxygen demand will likely increase.

Spill material is biodegradable if gradually exposed to microorganisms. Potential treatment and disposal methods include land farming, incineration and land disposal, if permitted.

## 14. TRANSPORTATION

DOT Hazardous Materials Proper Shipping Name: Not a DOT "Hazardous Material"

DOT Hazard Class: Not regulated

UN/NAID No.: Not regulated/Not applicable

## 15. REGULATORY INFORMATION

SUPERFUND AMENDMENTS & REAUTHORIZATION ACT OF 1986 (SARA), TITLE III

**Section 311/312 Hazard Categories:** Immediate (Acute) and delayed (Chronic) Health Hazards

**Section 302, 304:** None of the chemicals in the product exceed the minimum reporting level under this statute.

**Toxic Substances Control Act (TSCA):** All components of this product are listed on the TSCA inventory.

**Comprehensive Environmental Response, Compensation & Liability Act (CERCLA):** No chemicals in this product are subject to the reporting requirements of CERCLA.

**California Safe Drinking Water & Toxic Enforcement Act of 1986 - Proposition 65:** Based on information currently available, this product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to the proposition. If you reformulate or further process this product, you should further evaluate this product based upon such reformation or processing, as well as upon its final composition and use.

## 16. OTHER INFORMATION

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