

## Vacuum Pump Oil

### 1 PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** Vacuum Pump Oil  
**Product Use:** Vacuum pump oil  
**Supplier Details:** Enviro-Safe Refrigerants, Inc.  
 400 Margaret Street  
 Pekin, IL 61554

**Emergency:** 1-800-424-9300  
**Contact:** Chemtrec  
**Phone:** 309-346-1110  
**Fax:** 309-346-1237  
**Email:** envirosafe2000@hotmail.com  
**Web:** www.es-refrigerants.com

### 2 HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):**  
 No GHS classifications indicated

**GHS Label elements, including precautionary statements**

**GHS Signal Word:** **NONE**  
 No GHS pictograms indicated for this product

**GHS Hazard Statements:**

No GHS hazards statements indicated

**GHS Precautionary Statements:**

P102 - Keep out of reach of children.  
 P103 - Read label before use.  
 P262 - Do not get in eyes, on skin, or on clothing.  
 P302+352 - IF ON SKIN: Wash with soap and water.  
 P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

**Hazards not otherwise classified (HNOC) or not covered by GHS**

**Inhalation:** ACUTE TOXICITY: Inhalation - Category 5

**Ingestion:** ACUTE TOXICITY: Oral - Category 5

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

**Ingredients:**

Cas#	%	Chemical Name
64742-54-7	10-25%	Mineral Oil, Petroleum Distillates, Hydro treated (mild) Heavy Paraffinic
68037-01-4	10-25%	1-Decene, homopolymer, hydrogenated
151006-62-1	10-25%	1-Dodecene, trimer, hydrogenated
-40-7	10-25%	Proprietary

## 4

## FIRST AID MEASURES

<b>Inhalation:</b>	Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.
<b>Skin contact:</b>	Wash with soap and water. Remove and launder contaminated clothing before reuse. If irritation develops get medical attention.
<b>Eye contact:</b>	Flush thoroughly with water. If irritation occurs, get medical assistance.
<b>Ingestion:</b>	First aid is normally not required. Seek medical attention if discomfort occurs.

<b>Flash Point:</b>	216° C (421°F)
<b>Auto ignition Temp:</b>	N/D
<b>LEL:</b>	N/D
<b>UEL:</b>	N/D

## 6

## ACCIDENTAL RELEASE MEASURES

## Spill Management:

Land Spill - Stop leak if you can do so without risk. Recover by pumping or with suitable absorbent.

Water Spill - Stop leak if you can do so without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

## 7

## HANDLING AND STORAGE

<b>Handling Precautions:</b>	Prevent small spills and leakage to avoid slip hazard. Static accumulator: This material is a static accumulator.
<b>Storage Requirements:</b>	Do not store in open or unlabeled containers.

## 8

## EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

No special requirements under ordinary conditions of use and with adequate ventilation.

**Personal Protective Equipment:** HMIS PP, B | Safety Glasses, Gloves

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

**Respiratory Protection:** If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include: no special requirements under ordinary conditions of use and with adequate ventilation.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate,



gas/vapor warning properties are poor, or if air purifying filters capacity/rating may be exceeded.

**Hand Protection:** Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material induce: no protection is ordinarily required under normal conditions of use.

**Eye Protection:** If contact is likely, safety glasses with side shields are recommended.

**Skin and Body Protection:** Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include: No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

**Specific Hygiene Measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned.

Practice good housekeeping.

Exposure limits/standards for materials that can be formed when handling this product: When mists/aerosols can occur, the following are recommended: 5 mg/m<sup>3</sup> - ACHIH TLV, 10 mg/m<sup>3</sup> - ACGIH STEL.

## 9

### PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear colorless to pale yellow	<b>Odor:</b>	Characteristic
<b>Physical State:</b>	Liquid	<b>Freezing/Melting Pt.:</b>	N/D
<b>Odor Threshold:</b>	N/D	<b>Auto-Ignition Temp:</b>	N/D
<b>Viscosity:</b>	46+/- 10% at 40°C (104°F)		

## 10

### STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Product is stable under normal conditions.
<b>Conditions to Avoid:</b>	Excessive Heat. High energy sources of ignition.
<b>Materials to Avoid:</b>	Strong Oxidizing Agents.
<b>Hazardous Decomposition:</b>	Material does not decompose at ambient temperatures.
<b>Hazardous Polymerization:</b>	Will not occur.

## 11

### TOXICOLOGICAL INFORMATION

#### Acute Toxicity

Potential acute health effects

- Inhalation: No known significant effects or critical hazards.
- Ingestion: No known significant effects or critical hazards. Skin contact: No known significant effects or critical hazards. Eye contact: No known significant effects or critical hazards.

Based on the data for CAS number 64742-54-7, 68037-01-4 and 151006-62-1 and similar materials.

#### Route of Exposure

##### Inhalation

Toxicity: LD50>5000 mg/m<sup>3</sup>  
Irritation: No end point data.

#### Conclusion/Remarks

Minimally Toxic. Based on test data for structurally similar materials. Negligible hazard at ambient/normal handling temperatures. Base on assessment of the components.

##### Ingestion

Toxicity: LD50>5000 mg/kg

Minimally Toxic. Based on test data for structurally similar materials.

##### Skin

Toxicity: LD50>5000 mg/kg  
Irritation: Data available

Minimally Toxic. Based on test data for structurally similar materials. Negligible irritation to skin at ambient temperatures. Based on the data for structurally similar materials.

**Eye** Irritation: Data available May cause mild, short-lasting discomfort to eyes. Based on test data for structurally similar materials.

**Chronic/Other Effects**

**For the product itself:** Repeated and/or prolonged exposure may cause irritation to the skin, eyes, or respiratory tract.

**12 ECOLOGICAL INFORMATION**

The information given is based on data available for the material, the components of the material, and similar materials.

**ECOTOXICITY**

Material - Not expected to be harmful to aquatic organisms.

**MOBILITY**

Base oil component - low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

**PERSISTENCE AND DEGRADABILITY**

Biodegradation:

Base oil component - Expected to be inherently biodegradable

**BIOACCUMULATION POTENTIAL**

Base oil component - Has the potential to bio accumulate, however, metabolism or physical properties may reduce the bio concentration or limit bioavailability.

**ECOLOGICAL DATA**

Basis for Assessment: Incomplete Eco toxicological data are available for this product. The information given below is based partly on knowledge of the components and the ecotoxicology of similar products.

Data for Highly Refined Severely Hydro treated Base oil for similar materials

Acute Toxicity: Poorly soluble mixture. May cause physical fouling of aquatic organisms.

**TEST**

**Aquatic - Acute Toxicity**

LL/EL50 expressed as the nominal amount of product required to prepare aqueous test extract.

**COMMENT**

Practically nontoxic:  
Practically nontoxic:  
Practically nontoxic:  
Practically nontoxic:

**ORGANISM TYPE**

Algae  
Fish  
Aquatic Invertebrates  
Microorganisms

**TEST RESULTS**

LL/EL/IL50>100 mg/l  
LL/EL/IL50>100 mg/l  
LL/EL/IL50>100 mg/l  
LC/EC/IC50>100 mg/l

**TEST**

**Aquatic - Chronic Toxicity**

**DURATION**

21 days  
7 days  
7 days

**ORGANISM TYPE**

Water Flea Fish  
Aquatic Invertebrates

**TEST RESULTS**

NOELR 1.05 mg/l: data for similar materials NOEC:  
>5000mg/L (IUCLID Dataset) NOEC: >5000mg/L  
(IUCLID Dataset)

Disposal recommendation bases on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

#### DISPOSAL RECOMMENDATIONS

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

Not regulated for land transport (USDOT), inland waterways transport, sea transport (IMDG-Code) or air transport (IATA).

USA: No special warning labels are required under OSHA 29CFR 1910.1200. OSHA hazard warnings are not applicable for this product; therefore, no OSHA warnings would appear on the label. No EPA hazard classification code.

#### Component (CAS#) [%] - CODES

Mineral Oil, Petroleum Distillates, Hydro treated (mild) Heavy Paraffinic (64742-54-7) [10-25%] NJHS, TSCA 1-Decene,

homopolymer, hydrogenated (68037-01-4) [10-25%] TSCA

1-Dodecene, trimer, hydrogenated (151006-62-1) [10-25%] TSCA

Proprietary (-40-7) [10-25%]

#### Regulatory CODE Descriptions

NJHS = NJ Right-to-Know Hazardous Substances TSCA = Toxic Substances Control Act

#### Disclaimer:

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

This information is given in good faith and based on our current knowledge of the product.

**Author:** Jeanette Akright

**Publication Date:** March 21, 2016