

VPO

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT: NATIONAL VACUUM PUMP OIL

PRODUCT CODE: VPO

CHEMICAL NAME/FAMILY: PETROLEUM LUBRICATING OIL

OTHER NAME: VACUUM PUMP OIL

MANUFACTURER: NATIONAL REFRIGERANTS, INC. **ADDRESS:** 11401 Roosevelt Boulevard Phila., Pa. 19154

INFORMATION: 800-262-0012 **EMERGENCY:** 800-424-9300 **DATE:** 4/2018 **PREPARER:** Matt Callahan

2. HAZARD IDENTIFICATION

CLASSIFICATION: Not classified according to 29 CFR 1910.1200 (2012)

OTHER HAZARDS: SKIN AND EYE CONTACT: Prolonged contact may cause minor skin or eye irritation. If swallowed can enterlungs and cause damage.

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT
Base Oils

CAS#
WEIGHT
See Below
>99%

The Base Oil may contains one or more of the following ingredients: 61788-76-9, 64741-88-4, 64742-01-4, 64742-65-0, 64741-89-5, 64742-48-9, 64742-52-5, 64742-54-7, 64742-56-3, 64742-55-8

COMMON NAMES AND SYNONYMS

Vacuum Pump Oil

There are no stabilizers or impurities that contribute to the classification of the material identified in section 2

4. FIRST AID MEASURES

EYES: Flush with large amounts of water for at least 15 minutes. If redness or irritation persists, contact a physician.

SKIN CONTACT: Wash with soap and water.

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^{*}no hazardous ingredients



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INHALATION: If inhaled move to fresh air.

INGESTION: Do not induce vomiting. Get medical attention

NOTE TO PHYSICIAN: No specific treatment. Contact Poisn Treatment Center if large

amounts have been ingested or inhaled

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Dry chemical, CO2, foam, waterfog, sand/earth

SPECIAL FIREFIGHTING PROCEDURES: Wear self-contained breathing apparatus.

Water spray is an unsuitable extinguishing agent.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE OF RELEASE OR SPILL: Stop leak. Dike up large spills. Use inert absorbent materials such as earth, sand or vermiculite for clean-up. Use personal protective equipment such as gloves, goggles, and coveralls to prevent contact with skin during clean up.

7. HANDLING AND STORAGE

PRECAUTIONS FOR STORAGE AND HANDLING: Avoid exposure to heat and flames. Protect against eye and skin contact. Store containers in an upright and secure position to prevent spills and protect against damage. Prohibit smoking, eating, or drinking in areas where material is handled

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Provide adequate ventilation when working in confined areas

PERSONAL PROTECTIVE EQUIPMENT

SKIN PROTECTION:

General work clothing and gloves (leather) should provide adequate protection. Any contaminated clothing should be promptly removed and washed before reuse.

EYE PROTECTION:

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For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear chemical safety goggles.

RESPIRATORY PROTECTION:

None generally required for adequately ventilated work situations. For accidental release or non-ventilated situations, or release into confined space, where the concentration may be above the PEL use a NIOSH approved respirator.

ADDITIONAL RECOMMENDATIONS:

Where contact with liquid is likely, such as in a spill or leak, impervious boots and clothing should be worn.

EXPOSURE LIMITS

OSHA permissible concentration of mineral oil mist in air is 5 mg/m3.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear amber liquid ODOR: Petroleum odor ODOR THRESHOLD: Not determined

PH: Neutral

MELTING/FREEZING POINT: -12°C (10.4°F)

BOILING POINT: >500°F

FLASH POINT: COC METHOD

EVAPORATION RATE:

FLAMMABILITY:

LEL/UEL:

Not applicable

Not applicable

VAPOR PRESSURE: <0.013 kPa (<1 mmHg) at 25°C

VAPOR DENSITY: >1.0 (air=1)
RELATIVE DENSITY: 0.86 @ 15.6 °C
SOLUBILITY: Insoluble in water

PARTITION COEFFICIENT

n-Octanol/water: >6

AUTO IGNITION TEMPERATURE: Not determined DECOMPOSITION TEMPERATURE: Not determined VISCOSITY: Not Determined

10. STABILITY AND REACTIVITY

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: NONE

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INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents such as chromic acid, hydrogen peroxide and bromine.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Upon combustion, CO₂ and CO are generated.

11. TOXICOLOGICAL INFORMATION

INHALATION AND SKIN ABSORPTION HEALTH RISKS: No known significant effects or hazards. OSHA permissible concentration of mineral oil mist in air is 5 mg/m3.

SKIN AND EYE CONTACT: Prolonged contact may cause minor skin and eye irritation.

SYMPTOMS OF EXPOSURE: N/A

INGESTION: Aspiration hazard if swallowed. Can enter lungs and cause damange

ACUTE AND CHRONIC HEALTH HAZARDS: N/A

CARCINOGENICITY: NTP IARC MONOGRAPHS OSHA REGULATED

NO NO NO

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N/A

12. ECOLOGICAL INFORMATION

No known significant or critical effects

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with Federal, State, and Local regulations.

14. TRANSPORATION INFORMATION

US DOT ID NUMBER: None US DOT PROPER SHIPPING NAME: None US DOT HAZARD CLASS: None US DOT PACKING GROUP: None

15. REGULATORY INFORMATION

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The regulatory information is not intended to be comprehensive. Other regulations may apply to this

material.

Federal Regulatory Status

Notification Status

EINECS All components listed or polymer exempt.

TSCA All components listed.
DSL All components listed.

SARA Hazard Categories (311/312)

No SARA 311/312 Hazards.

State Regulatory Status

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

This material does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

16. OTHER INFORMATION

HMIS: H F R

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DISCLAIMER

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