



MATERIAL SAFETY DATA SHEET

PRODUCT: NATIONAL VACUUM PUMP OIL
PRODUCT CODE: VPO
CHEMICAL NAME/FAMILY: PETROLEUM LUBRICATING OIL

HMIS CODES: H F R
1 1 0

MANUFACTURER: NATIONAL REFRIGERANTS, INC.
ADDRESS: 11401 Roosevelt Boulevard Phila., Pa. 19154
INFORMATION: 800-262-0012
DATE: 10/06

EMERGENCY: 800-424-9300

PREPARER: Ray Madariaga

HAZARDOUS INGREDIENTS/SARA TITLE III INFORMATION

HAZARDOUS COMPONENTS	CAS NUM	APPROXIMATE %	TOTAL PRODUCT PEL
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	>99	5 mg/m ³
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	<1	

* Indicates toxic chemical subject to the reporting requirements of 40CFR372 and Title III Section 313.

PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: >560°F
SPECIFIC GRAVITY (H₂O=1): 0.88 @ 15.6°C
VAPOR DENSITY: >5 (AIR=1)
EVAPORATION RATE: Negligible
SOLUBILITY IN WATER: Negligible; < 0.1%
pH: Neutral
APPEARANCE AND ODOR: Clear yellow colored liquid with petroleum odor.

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 406°F (ASTM D-92)
FLAMMABLE LIMITS IN AIR (ESTIMATED VOLUME) LEL: 0.9 UEL: 7.0
EXTINGUISHING MEDIA: Dry chemical, CO₂, foam, waterfog, watespray, sand/earth.
SPECIAL FIREFIGHTING PROCEDURES: Wear self-contained breathing apparatus. Use water to keep fire-exposed containers cool.
UNUSUAL FIRE AND EXPLOSION HAZARDS: None

REACTIVITY DATA

STABILITY: Stable
HAZARDOUS POLYMERIZATION: None
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents such as chromic acid, hydrogen peroxide, and bromine.
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Upon combustion, CO₂, CO sulfur oxides, phosphorous oxides, metal oxides, aldehydes, and other decomposition produxts may be generated.



HEALTH HAZARD DATA

INHALATION AND SKIN ABSORPTION HEALTH RISKS: OSHA permissible concentraion of mineral oil mist in ar is 5 mg/m³.

SKIN AND EYE CONTACT: Prolonged contact may cause minor skin irritation. **If product is injected into or under the skin, the individual should be immediately evaluated by a physician.**

SYMPTOMS OF EXPOSURE: N/A

INGESTION: N/A

ACUTE AND CHRONIC HEALTH HAZARDS: N/A

CARCINOGENICITY:	NTP	IARC MONOGRAPHS	OSHA REGULATED
	NO	NO	NO

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N/A

EMERGENCY AND FIRST AID PROCEDURES:

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.

INHALATION: None normally required. If overcome by vapor of hot product, immediately remove victim from exposure and call a physician. If breathing is irregular or has stopped, start resuscitation and administer oxygen, if available.

INGESTION: Do not induce vomiting. Call a physician.

PRECAUTIONS/CONTROL MEASURES FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE OF RELEASE OR SPILL: Stop leak. Dike up large spills. Use inert absorbant material such as earth, sand, or vermiculite for clean up. Keep product out of watercourses and sewers. Notify authorities if product has entered, or may enter, sewers, watercourses, or extensive land areas.

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

PRECAUTIONS FOR STORAGE AND HANDLING: Avoid exposure to heat and flame. Protect agaunst eye and skin contact. "Empty" containers may contain liquid or vapor residue. Do not pressurize, cut, weld, braze, solder, or drill containers as they may explode.

WORK/HYGIENIC PRACTICES: Wash thoroughly after handling.

DISCLAIMER

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