



# SAFETY DATA SHEET

## PE32 OIL

### 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**PRODUCT:** NATIONAL POLYOLESTER LUBRICANT PE32

**PRODUCT CODE:** PE32

**CHEMICAL NAME/FAMILY:** SYNTHETIC ESTER LUBRICATING FLUID

**OTHER NAMES:** Refrigerant Oil

**MANUFACTURER:** NATIONAL REFRIGERANTS, INC.

**ADDRESS:** 11401 Roosevelt Boulevard Phila., Pa. 19154

**INFORMATION:** 800-262-0012

**EMERGENCY:** 800-424-9300

**DATE:** 3/2015

**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 irritation.

### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

MATERIAL	CAS NO.	APPROX%	TLV
Pentaerythritol ester of heptanoic and isopentanoic acids	68441-94-1	Proprietary	5mg <sup>3</sup> (as a mist)
Mixed pentaerythritol esters of isononionic and heptanoic acids	118685-29-3	Proprietary	5mg <sup>3</sup>
Antiwear/antioxidant additive	N/A		N/A

### 4. FIRST AID MEASURES

**SKIN CONTACT:** In case of skin contact, remove contaminated clothing and wash skin thoroughly with soap and water.

**EYE CONTACT:** If splashed into eyes, flush with clear water for 15-minutes or until irritation subsides. If irritation persists, call a physician.

**INHALATION:** 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



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resuscitation; administer oxygen if available. If overexposure is due to oil mist, remove from further exposure until excessive oil mist condition subsides.

**INGESTION:** If ingested, do not induce vomiting. Call a physician immediately.

## **5. FIRE FIGHTING MEASURES**

**FIRE AND EXPLOSION HAZARDS:** N/A

**EXTINGUISHING MEDIA:** Foam, CO<sub>2</sub>, Dry Chemical

**SPECIAL FIREFIGHTING INSTRUCTIONS:** Use water spray to cool surface of container. Use Self Contained Breathing Apparatus (SCBA), avoid breathing fumes, vapors, or mists. Water may cause frothing.

## **6. ACCIDENTAL RELEASE MEASURES**

**PROCEDURES IN CASE OF ACIDENTAL RELEASE, BREAKAGE OR LEAKAGE:** Ventilate area. Avoid breathing vapor. Wear appropriate personal protective equipment, including appropriate respiratory protection. Contain spill if possible. Wipe up or absorb on suitable material and shovel up. Prevent entry into sewers and waterways. Avoid contact with skin, eyes or clothing.

## **7. HANDLING AND STORAGE**

**HANDLING:** Minimum feasible handling temperatures should be maintained. Avoid exposure to heat and flames. Protect against eye and skin contact.

**STORAGE:** Periods of exposure to high temperatures should be minimized. Water contamination should be avoided. Keep container tightly sealed when not in use. Store containers in an upright and secure position to prevent spills and protect against damage.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **GENERAL CONTROL MEASURES**

Normal ventilation for standard manufacturing procedures is generally adequate. Local exhaust should be used when large amounts are released. Mechanical ventilation should be used in low places. Keep containers closed when not in use. Do not handle near heat, sparks, flame, or strong oxidants.

### **PERSONAL PROTECTIVE EQUIPMENT**

Butyl gloves should be worn to avoid prolonged or repeated exposure. Chemical splash goggles should be worn as needed to prevent eye contact. Under normal use, no respiratory protection is required when using this chemical.



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## PERSONAL HYGIENE

Minimize breathing vapor, mist, or fumes. Avoid prolonged contact with skin. Remove contaminated clothing, and launder or dry-clean before reuse. Cleanse skin thoroughly after contact, especially before eating, with waterless hand cleaner followed by soap and water.

**EXPOSURE GUIDELINES:** ACGIH TLV = 5mg/m<sup>3</sup> (as a mist)

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE:</b>	Amber liquid
<b>ODOR:</b>	Slight chemical odor
<b>ODOR THRESHOLD:</b>	Not determined
<b>PH:</b>	Neutral
<b>MELTING POINT/FREEZING POINT:</b>	N/A
<b>BOILING POINT:</b>	N/A
<b>FLASH POINT:</b>	>500°F (COC test method)
<b>EVAPORATION RATE:</b>	Not applicable
<b>FLAMMABILITY:</b>	Not applicable
<b>LEL/UEL:</b>	Not evaluated
<b>VAPOR PRESSURE:</b>	N/A
<b>VAPOR DENSITY:</b>	N/A at 77 deg. F (Air = 1)
<b>RELATIVE DENSITY:</b>	<1.0 g/cc at 77 deg. F
<b>SOLUBILITY:</b>	Negligible
<b>PARTITION COEFFICIENT</b>	
<b>n-Octanol/water:</b>	Not applicable
<b>AUTO IGNITION TEMPERATURE:</b>	Not determined
<b>DECOMPOSITION TEMPERATURE:</b>	Not determined
<b>VISCOSITY:</b>	31.2 cSt @ 40°C

## 10. STABILITY AND REACTIVITY

**STABILITY:** Material is stable. Avoid open flames and high temperatures.

**DECOMPOSITION:** This material may decompose if exposed to high temperatures (open flames) producing CO and CO<sub>2</sub>.

**INCOMPATIBILITY:** N/A

**POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### PRINCIPLE HEALTH HAZARDS



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**INHALATION:** 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 overexposure is due to oil mist, remove from further exposure until excessive oil mist condition subsides.

**INGESTION:** If ingested, do not induce vomiting. Call a physician immediately.

## **EXPOSURE LIMIT FOR TOTAL PRODUCT**

5mg/m<sup>3</sup> for oil mist in air

## **CARCINOGENICITY**

Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH.

## **SAFETY PRECAUTIONS**

Avoid breathing vapors and prolonged skin exposure. Use with sufficient ventilation to keep exposure below recommended limits.

## **SIGNS AND SYMPTOMS OF EXPOSURE**

None known

## **12. ECOLOGICAL INFORMATION**

### **-- ENVIRONMENTAL TOXICITY --**

<b>FRESHWATER FISH TOXICITY</b>	Not determined.
<b>FRESHWATER INVERTEBRATES TOXICITY</b>	Not determined.
<b>ALGAL INHIBITION</b>	Not determined.
<b>SALTWATER FISH TOXICITY</b>	Not determined.
<b>SALTWATER INVERTEBRATES TOXICITY</b>	Not determined.
<b>BACTERIA TOXICITY</b>	Not determined.
<b>MISCELLANEOUS TOXICITY</b>	Not determined.

### **-- ENVIRONMENTAL FATE --**

Biodegradation Adequate data is not available to estimate the biodegradation potential of this material. Bioaccumulation Less than 1.0% of the components potentially bioconcentrate, based on octanol/water coefficients. Soil Mobility Not determined.



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## 13. DISPOSAL CONSIDERATIONS

### SPILL, LEAK OR RELEASE

Ventilate area. Do not flush into sewers. Dike spill. Collect on absorbent material and transfer to steel drums for recovery or disposal. Comply with Federal, State and local regulations on reporting releases.

### WASTE DISPOSAL

Comply with Federal, State and local regulations

## 14. TRANSPORTATION INFORMATION

\*\*\* This product is not regulated by DOT, IMO, ICAO

### DOMESTIC--OTHER THAN AIR (DOT)

PROPER SHIPPING NAME:  
UN NUMBER: Not applicable  
HAZARD CLASS: Not applicable  
DOT LABELS: Not applicable  
DOT PLACARD: Not applicable

### INTERNATIONAL WATER OR AIR (IMO/ICAO)

PROPER SHIPPING NAME:  
UN NUMBER: Not applicable  
HAZARD CLASS: Not applicable  
IMO/ICAO LABEL: Not applicable

## 15. REGULATORY INFORMATION

### SARA TITLE III INFORMATION ( 40CFR300 )

#### EXTREMELY HAZARDOUS SUBSTANCES (40CFR355)

MATERIAL	TPQ (LBS)	RQ (LBS)
None listed	N/A	N/A

#### CERCLA HAZARDOUS SUBSTANCES (40CFR302.4)

MATERIAL	WT%	RQ (LBS)
None listed	N/A	N/A

#### PRODUCT HAZARD CATAGORIES (SARA TITLE III/SECTIONS 311 & 312)

IMMEDIATE	NO	DELAYED	NO
FIRE	NO	PRESSURE	NO
REACTIVE	NO	CHRONIC	NO

#### TOXIC SUBSTANCES (SARA TITLE III/SECTION 313 & 40CFR372)



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**MATERIAL**

**CAS NO.**

**WT %**

None listed

<b>16. OTHER INFORMATION</b>
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HMIS CODES: H F R P  
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**DISCLAIMER:**

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