



# MATERIAL SAFETY DATA SHEET

## C-4 Refrigeration Oil

### I - PRODUCT IDENTIFICATION

**Company Name:** Nu-Calgon Wholesaler, Inc.  
**Address:** 2008 Altom Court, St. Louis, MO 63146-4151  
**Product Name:** C-4 Refrigeration Oil  
**Synonyms:** Refined Hydrotreated Naphthenic Oil

**Tel No:** (314) 469-7000, (800) 554-5499  
**CHEMTREC:** (800) 424-9300  
**Product Number:** 4304

### II - HAZARDOUS INGREDIENTS OF MIXTURES

<u>MATERIAL</u>	<u>CAS#</u>	<u>% By Wt</u>	<u>TLV</u>	<u>PEL</u>
Mineral Oils	64742-44-5	100	5mg/m3 (as a mist)	N/A

VOC Content: 9.3%; 0.70 lbs/gal (0.084 mg/L)  
All ingredients are TSCA listed.

### III - PHYSICAL DATA

**Vapor Pressure:** mm Hg:<0.0001 @ 20 ° C  
**Evaporation Rate:** (ether=1): 1000x slower vs eth  
**Solubility in H<sub>2</sub>O:** Nil  
**Freezing Point °F:** N/AV  
**Boiling Point °F:** > 500 ° F (IBP)  
**Specific Gravity H<sub>2</sub>O=1 @25° C:** 0.9

**Vapor Density (Air=1) 60-90° F:** >5  
**VOC Content (% by wt.):** 9.6%  
**pH @ N/A Solution:** N/A  
**pH as Distributed:** essentially neutral  
**Appearance:** Water white to straw colored liquid  
**Odor:** Little odor

### IV - FIRE AND EXPLOSION

**Flash Point F:** >350°F COC **Flammable Limits:** N/A  
**Extinguishing Media:** Water fog, chemical foam, dry chemical CO  
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**Special Fire Fighting Procedures:** Exercise caution when fighting any chemical fire. Respiratory protection is essential.

**Unusual Fire and Explosion Hazards:** None

### V - REACTIVITY DATA

**Stability - Conditions to avoid:** None known  
**Incompatibility:** Strong oxidizers.  
**Hazardous Decomposition Products:** Exposure to high temperature can produce carbon monoxide.  
**Conditions Contributing to Hazardous Polymerizations:** None known.

### VI - HEALTH HAZARD DATA

**EFFECTS OF OVEREXPOSURE (Medical Conditions Aggravated/Target Organ Effects),**  
**A. ACUTE (Primary Route of Exposure) EYES & SKIN:** May cause reversable eye and skin irritation.  
**INGESTION:** This product is practically non-toxic through ingestion. The acute ORAL LD50 (rats) is >30g/kg.  
**B. SUBCHRONIC, CHRONIC, OTHER:** None known.  
**C. MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:**

### VII - EMERGENCY AND FIRST AID PROCEDURES

**INHALATION:** N/A

**EYES:** In case of contact, flush with plenty of water for at least 15 minutes. If irritation develops, call a physician.

**SKIN:** N/A

**INGESTION:** N/A. Good First Aid should be followed in all cases of exposure.

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## VIII - SPILL OR LEAK PROCEDURE

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**Spill Management:** Dispose of in accordance with federal, state and local regulations. Dike area to contain as much spilled material as possible. Remove any remaining material by absorbing on vermiculite or other suitable material and place in sealed metal container for disposal.

**Waste Disposal Methods:** Mix with a flammable solvent and incinerate in accordance with federal, state and local regulations.

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## IX - PROTECTION INFORMATION/CONTROL MEASURES

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**Respiratory:** Not required

**Eye Protection:** Safety glasses **Glove:** Not required

**Other Clothing and Equipment:** Not required

**Ventilation:** Local exhaust.

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## X - SPECIAL PRECAUTIONS

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**Precautions to be taken in Handling and Storing :** Wash thoroughly after handling. Keep container closed. Exercise caution in the storage and handling of all chemical substances.

**Additional Information:** Read and observe any label precautions.

### NFPA

Health Hazard.....: 0

Fire Hazard.....: 1

Reactivity.....: 0

Specific Hazard....:

### HMIS RATING

Health Hazard.....: 0

Fire Hazard.....: 1

Reactivity.....: 0

Personal Protection...: X (Sec. 9)

**Revision Date: 06/23/2004**

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