



# MATERIAL SAFETY DATA SHEET

## Zerol 150 Refrigeration Oil

### I - PRODUCT IDENTIFICATION

**Company Name:** Nu-Calgon Wholesaler, Inc.  
**Address:** 2008 Altom Court, St. Louis, MO 63146-4151  
**Product Name:** Zerol 150 Refrigeration Oil  
**Synonyms:** Refrigeration Fluid

**Tel No:** (314) 469-7000, (800) 554-5499  
**CHEMTREC:** (800) 424-9300  
**Product Number:** 4310

### II - HAZARDOUS INGREDIENTS OF MIXTURES

<u>MATERIAL</u>	<u>CAS#</u>	<u>% By Wt</u>	<u>TLV</u>	<u>PEL</u>
Alkyl Benzene	68855-24-3	100	N/A	N/A

All ingredients appear on the Inventory of Chemical Substances published by the EPA under authority of the Toxic Substances Control Act (TSCA)

Approx Dielectric Constant: 2.1 (air=1)(non-additized oil)

All ingredients are TSCA listed.

### III - PHYSICAL DATA

**Vapor Pressure:** mm Hg: N/A  
**Evaporation Rate:** (ether=1): N/A  
**Solubility in H<sub>2</sub>O:** Insoluble  
**Freezing Point °F:** N/AV  
**Boiling Point °F:** 315°C  
**Specific Gravity H<sub>2</sub>O=1 @25° C:** 0.87

**Vapor Density (Air=1) 60-90° F:** N/A  
**VOC Content (% by wt.):** N/A  
**pH @ N/AV Solution:** N/AV  
**pH as Distributed:** N/AV  
**Appearance:** Water white liquid  
**Odor:** Characteristic

### IV - FIRE AND EXPLOSION

**Flash Point F:** (COC) 311°F (MIN) **Flammable Limits:** N/A  
**Extinguishing Media:** CO<sub>2</sub>, dry chemical, foam, water fog.  
**Special Fire Fighting Procedures:** For fires involving this material, do not enter any closed or confined fire space without proper protection equipment. This may include self-contained breathing apparatus to protect against the hazardous effect of normal products of combustion or oxygen deficiency. Read entire MSDS.  
**Unusual Fire and Explosion Hazards:** N/AV

### V - REACTIVITY DATA

**Stability - Conditions to avoid:** Stable  
**Incompatibility:** May react with strong oxidizing materials.  
**Hazardous Decomposition Products:** Normal combustion forms carbon dioxide and water vapor; incomplete combustion can produce carbon monoxide.  
**Conditions Contributing to Hazardous Polymerizations:** Will not occur.

### VI - HEALTH HAZARD DATA

**EFFECTS OF OVEREXPOSURE (Medical Conditions Aggravated/Target Organ Effects),**  
**A. ACUTE (Primary Route of Exposure)** EYES: Applications into the eyes of rabbits produced slight membrane irritation without corneal injury. SKIN: Product may cause skin irritation on prolonged or frequently repeated contact. Application onto the skin of rabbits produced moderate erythema and edema. INGESTION: Not expected to be acutely toxic. (ORAL LD50 Rats >5g/kg). INHALATION: Not acutely toxic.  
**B. SUBCHRONIC, CHRONIC, OTHER:** No available information was found.  
**C. MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:**

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## VII - EMERGENCY AND FIRST AID PROCEDURES

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**INHALATION:** N/A

**EYES:** Flush eyes immediately with fresh water for at least 15 minutes while holding eyelids open. If irritation persists, see a doctor.

**SKIN:** Wash skin thoroughly with soap and water. See a doctor if rash or burn occurs. Launder contaminated clothing.

**INGESTION:** If swallowed, give water or milk to drink and telephone for medical advice. Consult medical personnel before inducing vomiting. If medical advice cannot be obtained, then take the person and product container to the nearest emergency treatment center or hospital.

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## VIII - SPILL OR LEAK PROCEDURE

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**Spill Management:** Stop the source of the leak or release. Clean up releases as soon as possible. Contain liquid to prevent further contamination of soil, surface water or ground water. Clean up small spills with absorbent material and remove contaminated soil. Report and respond to larger release

**Waste Disposal Methods:** Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. Contact local authorities for approved disposal.

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## IX - PROTECTION INFORMATION/CONTROL MEASURES

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**Respiratory:** None normally required

**Eye Protection:** Safety goggles **Glove:** Rubber Gloves

**Other Clothing and Equipment:** Wear impervious clothing.

**Ventilation:** N/A

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## X - SPECIAL PRECAUTIONS

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**Precautions to be taken in Handling and Storing:** Do not weld, heat or drill container. Residue may ignite with explosive violence if heated sufficiently. CAUTION! Do not use pressure to empty drum or explosion may result.

**Additional Information:** Read and observe all 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:** 04/26/2005

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