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## MATERIAL SAFETY DATA SHEET

### SECTION 1. Product and Company Identification

#### MINERAL OIL

**Product Code:** HH-MINERAL OIL

**Product Name:** MINERAL OIL **Chemical Family:** Compound

**Manufacturer Name and  
Address:**

Distributed by: CHEMREC (800)424-9300

Farnam Companies, Inc. District of Columbia (202)483-0414

301 West Osborn Road Farnam Companies, (800)234-2269  
In

Phoenix, AZ.

**Additional Identity Information**  
77601

**Telephone  
Numbers:**

**Dates:**

Date Created:  
10/04/1994

Revision: 06/26/2007

Printed: 06/29/2007

### SECTION 2. Composition/Information on Ingredients

#### MINERAL OIL

Hazardous Components (Chemical Name)	CAS #	Concentration
1. MINERAL OIL USP	8042-47-5	90.0 -100.0 %
<b>OSHA PEL</b>		<b>ACGIH TLV</b>
1. No data.		No data.

### SECTION 3. Hazards Identification

#### MINERAL OIL

##### Emergency Overview

No data available.

**Route(s) of Entry:** Inhalation? No , Skin? No , Eyes? No , Ingestion? Yes

##### Potential Health Effects (Acute and Chronic)

**Under Manufacturing Conditions:** On rare occasions, prolonged and repeated exposure to oil mist poses a risk of pulmonary disease such as chronic lung inflammation. This condition is usually asymptomatic as a result of repeated small aspirations. Shortness of breath and cough are the most common symptoms. Aspiration may lead to chemical pneumonitis which is characterized by pulmonary edema and hemorrhage, and may be fatal. Signs of lung involvement include increased respiration rate, increased heart rate, and a bluish discoloration of the skin. Coughing, choking, and gagging are often noted at the time of aspiration. Gastrointestinal discomfort may develop, followed by vomiting, with a further risk of

aspiration.

**Carcinogenicity:** NTP? No , IARC Monographs? No , OSHA Regulated? No

**Carcinogenicity/Other Information**

No data available.

**Signs and Symptoms Of Exposure**

May cause slight eye irritation

**Medical Conditions Generally Aggravated By Exposure**

none known

## **SECTION 4. First Aid Measures MINERAL OIL**

### **Emergency and First Aid Procedures**

**IF INGESTED:** Do NOT induce vomiting because of aspiration hazard. If victim is conscious, give 1 to 3 glasses of water or milk and contact physician or Poison Control Center. May act as laxative.

**IF INHALED:** Remove to fresh air. Administer respiration if indicated. If unconscious, seek medical attention.

**IF IN EYES:** Immediately flush with large amounts of water and continue flushing for 15 minutes. If material is hot, treat for thermal burns and take patient to hospital immediately.

**IF ON SKIN:** Remove contaminated clothing. If material is hot, submerge injured area in cold water. If patient is severely burned, remove to a hospital immediately.

### **Note to Physician**

No data available.

## **SECTION 5. Fire Fighting Measures MINERAL OIL**

**Flash Pt:** 400.00 F **Method Used:** TCC

**Explosive Limits:** LEL: NE UEL: NE

**Autoignition Pt:** N.A. **Extinguishing Media**

dry chemical, foam, water spray, or carbon dioxide

### **Fire Fighting Instructions**

Water may be ineffective but can be used to cool containers exposed to heat or flame. Caution should be exercised when using water or foam as foaming may occur, especially if sprayed into containers of hot, burning liquid. Water runoff can cause environmental damage. Dike and collect water used to fight fire.

### **Flammable Properties and Hazards**

Dense smoke may be generated while burning. Carbon monoxide, carbon dioxide and other oxides may be generated as products of combustion.

### **Hazardous Combustion Products**

No data available.

## **SECTION 6. Accidental Release Measures MINERAL OIL**

### **Steps To Be Taken In Case Material Is Released Or Spilled**

Contain spill immediately. Do not allow spill to enter sewers or watercourses. Remove all sources of ignition. Absorb with appropriate inert material such as sand, clay, etc.. Large spills may be picked up using vacuum pumps, shovels, buckets, or other means and placed in drums or other suitable containers.

## **SECTION 7. Handling and Storage MINERAL OIL**

### **Hazard Label Information:**

Good general ventilation should be sufficient for facilities storing or utilizing this

### **Precautions To Be Taken in Handling**

Do not transfer to unmarked containers. Store in closed containers away from heat, sparks, open flame, or oxidizing materials. Flammable and combustible liquids.

### **Precautions To Be Taken in Storing**

No data available.

### **Other Precautions**

KEEP OUT OF REACH OF CHILDREN

## **SECTION 8. Exposure Controls/Personal Protection MINERAL OIL**

### **Respiratory Equipment (Specify Type)**

none under normal use, NIOSH cert. OVR w/dust & mist filter

### **Eye Protection**

Chemical goggles

### **Protective Gloves**

Impervious gloves

### **Other Protective Clothing**

Clothes to prevent skin contact

### **Engineering Controls (Ventilation etc.)**

Local Exhaust: sufficient

Special:

Mechanical (Gen):

Other:

### **Work/Hygienic/Maintenance Practices**

Wash hands before eating, smoking or using restroom.

## SECTION 9. Physical and Chemical Properties MINERAL OIL

**Solubility Notes**

Negligible

**Physical States:** Gas ,  Liquid ,  Solid**Boiling Point:**

740.00 F

**Melting Point:**

N.A.

**Specific Gravity (Water = 1):**

0.840000 at 77.0 F

**Density:**

No data.

**Vapor Pressure (vs. Air or mm Hg):**

N.A.

**Vapor Density (vs. Air = 1):**

&gt; AIR

**Evaporation Rate (vs Butyl Acetate=1):**

N.A.

**Solubility in Water:**

N.A.

**Percent Volatile:**

N.A.

**Saturated Vapor Concentration:**

No data.

**Viscosity:**

No data.

**pH:**

No data.

**Appearance and Odor**

Clear, light colored liquid

## SECTION 10. Stability and Reactivity MINERAL OIL

**Stability:** Unstable  Stable **Conditions To Avoid - Instability**

none known

**Incompatibility - Materials To Avoid**

strong oxidizing agents

**Hazardous Decomposition Or Byproducts**In fire conditions, CO, CO<sub>2</sub>, and reactive hydrocarbons may be produced.**Hazardous Polymerization:** Will occur  Will not occur **Conditions To Avoid - Hazardous Polymerization**

will not occur

## SECTION 11. Toxicological Information MINERAL OIL

No data available.

## SECTION 12. Ecological Information MINERAL OIL

No data available.

## SECTION 13. Disposal Considerations MINERAL OIL

### Waste Disposal Method

Dispose of in accordance with local, State and Federal regulations.

## SECTION 14. Transport Information MINERAL OIL

### DOT Proper Shipping Name

No data available.

**DOT Hazard Label:** None

**UN/NA Number:** No dat

### Additional Transport Information

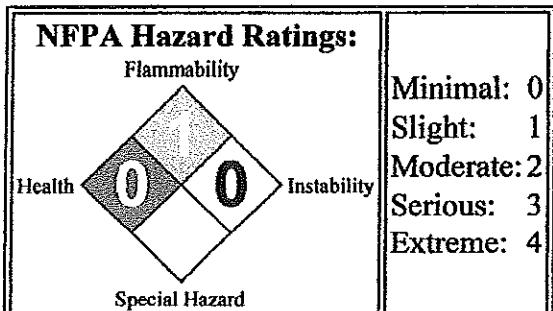
No data available.

## SECTION 15. Regulatory Information MINERAL OIL

No data available.

## SECTION 16. Other Information MINERAL OIL

Supercedes Revision 04/25/2001



The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification.



## MATERIAL SAFETY DATA SHEET

**PRODUCT: SOLEST 68**  
**CHEMICAL NAME/FAMILY: POLYOL ESTER**

**HMIS:**      **H**      **F**      **R**  
                  0      1      0

DISTRIBUTOR: NATIONAL REFRIGERANTS, INC.

ADDRESS: 11401 Roosevelt Boulevard Phila., Pa. 19154

INFORMATION: 800-262-0012

**EMERGENCY: 800-424-9300**

DATE: 12/08

**PREPARER:** Ray Madariaga

## **COMPOSITION / INFORMATION ON INGREDIENTS**

### Proprietary Formulation

CAS#: Proprietary

## **HAZARDS IDENTIFICATION**

This material has no known hazards under applicable laws. The product contains no known carcinogens. No special warning labels are required under OSHA 29 CFR 1910.1200.

## **FIRST AID MEASURES**

**Ingestion:** Do not induce vomiting. If conscious, give 2 glasses of water and consult physician. May cause nausea and diarrhea.

**Skin:** Upon contact with skin, wash exposed area with soap and water.

**Inhalation:** Product is not toxic by inhalation. If oil mist is inhaled, remove to fresh air and consult physician.

**Eye Contact:** Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain medical attention if irritation persists.

## **FIRE-FIGHTING MEASURES**

**Flash Point (Cleveland Open Cup):** 230 deg. C minimum

**Flammable Limits:** Not Determined

**Auto ignition Temperature:** Not Determined

**Extinguishing Media:** Dry Chemical; CO<sub>2</sub> Foam; Water Spray (fog)



**Unusual Fire and Explosion Hazards:** None

**Special Fire Fighting Procedures:** Toxic fumes, gases or vapors may evolve on burning. Firefighters should use NIOSH/MNSA- approved self-contained breathing apparatus. Use water to cool fire-exposed containers. Use water carefully near exposed liquid to avoid frothing and splashing of hot liquid.

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#### **ACCIDENTAL RELEASE MEASURES**

**In Case of Spill:** Stop the source of the spill. Dike the spill area. Use absorbent materials to soak up fluid ( i.e. sand, sawdust, commercially available materials). Wash the spill area with large amounts of water. Properly dispose of all materials.

**Personal Precautions:** Wear suitable protective equipment, especially goggles.

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#### **HANDLING AND STORAGE**

##### **Handling Precautions:**

Do not take internally. Avoid contact with skin, eyes, and clothing. Upon contact with skin, wash exposed area with soap and water. If product enter the eyes, flush with water for 15 minutes and consult a physician. Wash contaminated clothing before reuse.

##### **Storage Requirements:**

Keep container tightly sealed when not in use.

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#### **EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Threshold Limit Value:** Not determined.

**Situations to Avoid:** Avoid breathing oil mists.

**Respiratory Protection:** Use in well ventilated area.

**Hand Protection / Protective Gloves:** Not required, but recommended, especially for prolonged exposure.

**Eye/Face Protection:** Safety glasses or goggles.

**Ventilation:** Local exhaust.

# NATIONAL LUBRICANTS™

## PHYSICAL/CHEMICAL CHARACTERISTICS

**Physical State:** Clear liquid

**Color:** Gray to yellow or light brown tint

**Odor:** Mild, distinct

**Boiling Point:** >650 deg. F

**Specific Gravity:** (H<sub>2</sub>O=1) 0.94-0.97

**Vapor Pressure:** <0.01 mmHg @ 20 deg. C

**Solubility in Water:** Negligible

**Percent Volatiles:** 0%

**Evaporation Rate (butyl acetate=1):** Nil

## STABILITY AND REACTIVITY

**Stability:** Stable

**Incompatible Materials:** Strong oxidizers

**Conditions to Avoid:** Excessive heat

**Hazardous Decomposition Products:** Analogous compounds evolve carbon monoxide, carbon dioxide, and other unidentified chemicals when burned.

**Hazardous Polymerization:** Will not occur.

## DISPOSAL CONSIDERATIONS

Incinerate this product and all associated wastes in a licensed facility in accordance with appropriate Federal, State, and local regulations.

## TRANSPORT INFORMATION

**DOT Classification:** This product is not regulated by DOT.

## REGULATORY INFORMATION

This material is not a hazardous waste under RCRA Regulation 40 CFR 261.

## DISCLAIMER

INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BELIEVED TO BE ACCURATE AT THE TIME OF PREPARATION. NO WARRANTY IS MADE CONCERNING THE ACCURACY AND NO LIABILITY SHALL BE MADE FOR CLAIMS FOR USE OR RELIANCE OF THE RECOMMENDATIONS CONTAINED HEREIN.



**MATERIAL SAFETY DATA SHEET**  
**DIVERSITECH**  
**ALKYLBENZENE REFRIGERATION OIL 150**

CATALOG NO. ALK 150

**SECTION I-IDENTIFICATION**

DISTRIBUTED BY: DIVERSITECH, Inc.

ADDRESS: 2530 Lantrac Court  
Decatur, Georgia 30035

EMERGENCY Phone No. 800-255-3924 Chem-Tel (Chemical Emergencies Only)

PHONE NUMBER FOR INFORMATION: 770-593-0900 Fax: 770-593-8600

DATE REVISED: 29 October 1999

NAME OF PREPARER: ANTHONY E. JERNIGAN

**HAZARD RATINGS**  
**HMIS DATA**

HEALTH = 0	0 = NONE
FIRE = 1	1 = SLIGHT
REACTIVITY = 0	2 = MODERATE
	3 = HIGH
	4 = EXTREME

PERSONAL PROTECTION INDEX = B

**SECTION II HAZARDOUS INGREDIENTS INFORMATION**

INGREDIENT % or	CAS NO	OSHA	ACIGH	OTHER
RNG	PEL	TLV	STEL	
Alkylate	68855-24-3/68081-77-6	No Threshold Limit Value	has been established for this material.	

EPA HAZARD CATEGORIES: None

WORKPLACE EXPOSURE LIMITS: Because of the oil-based components of this mixture, if misting occurs, control of exposure to 5mg/m<sup>3</sup> or less is recommended.

**SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS**

Boiling Point: >315°C	Specific gravity (H <sub>2</sub> O = 1): 0.86
Vapor pressure (mm Hg): 0.01 @20°C	Melting Point(Pour Point):0
Vapor Density (Air=1): Not Applicable	Evaporation Rate (Water = 1): Not applicable
Solubility in water: Insoluble	Viscosity: 29-35 cSt @ 40°C
Appearance and odor: Clear yellow liquid; mild bland odor.	

**SECTION IV- FIRE AND EXPLOSION HAZARD DATA**

Flash Point (Method Used): 320°F (COC) Flammable Limits: LEL: N/A UEL: N/A

Extinguishing media: Use agents approved for Class B fires: dry chemical, CO<sub>2</sub>, foam, water fog.

Special Fire Fighting Procedures: FIREFIGHTERS SHOULD WEAR NIOSH/MNSA APPROVED SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR WHEN FIGHTING FIRES INVOLVING THIS PRODUCT. Thoroughly decontaminate protective

equipment after use. Keep containers cooled with a water spray if involved in a fire.

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**Unusual Fire and Explosion Hazards:** Burning fluid may evolve irritating/noxious fumes, smoke and carbon monoxide. Water may cause frothing or splattering when used as an extinguishing agent.

#### **SECTION V – REACTIVITY DATA**

Stability-Stable

Conditions to avoid: Excessive heat; formation of oil mist.

**Incompatibility (Materials to avoid):** Strong oxidizers, strong alkalis, strong acids, and compressed oxygen

**Hazardous Decomposition or Byproducts:** None. Normal burning forms carbon dioxide and water. Incomplete burning can produce carbon monoxide.

**Hazardous Polymerization:** Will not occur.

Alkylbenzene Refrigeration Oil 150 MSDS

#### **SECTION VI– HEALTH HAZARD DATA**

Routes of Entry: Inhalation: yes Skin: yes Ingestion: yes Eyes: yes

Health Hazards (acute and chronic): Irritating to skin and eyes.

Carcinogenicity: NTP? no IARC Monographs? no OSHA Regulated? No

Nature of Hazard/Signs and symptoms of exposure:

Inhalation: Negligible hazard at ambient conditions (0-100°F) or recommended blending temperature.

Avoid breathing spray or mists.

Skin: No hazard in normal industrial use. Prolonged contact may cause irritation. Contact with hot

material may cause thermal burns.

Ingestion: **Do not take internally.** Minimal toxicity on ingestion. Give water. Do not induce vomiting.

Eyes: Slightly irritating, but contact will not injure eye tissue.

Medical Conditions Aggravated by Exposure: Contact or breathing mists may exacerbate existing skin or respiratory disorders.

**Emergency and First Aid Procedures:**

Eyes: Flush with warm water for until irritation subsides. Consult a physician if irritation persists

Skin: Remove contaminated clothing. Wash the affected area with soap and water. Launder or dry

clean clothes before reuse. Discard contaminated leather articles. If the product is injected into or under

the skin, physician should treat the individual as a surgical emergency.

Inhalation: Using proper respiratory protection, immediately remove the affected victim from exposure. Evacuate to a safe area with plenty of fresh air. Administer artificial respiration if breathing has stopped. Keep at rest. Call for medical aid immediately.

Ingestion: DO NOT induce vomiting. Drink 2-3 cups of milk or water. Call the nearest poison control

center immediately.

## **SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND STORAGE**

### **STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED:**

Remove all contaminated clothing immediately. Remove unnecessary personnel from the area. Floors may be slippery; use care to avoid falling. Dike the spill immediately with inert materials to prevent the spread of liquid. Absorb the liquid with an inert absorbent such as sand, dirt, vermiculite or "oil-dri", or use commercial oil absorbent pads, or remove liquid mechanically. Transfer absorbed material to suitable containers, and dispose of in accordance with local, state, and federal regulations.

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**WASTE DISPOSAL METHODS:** Disposal must comply with applicable local state and federal regulations. Determine the waste classification at the time of disposal. Conditions of use may render the spent product a hazardous waste Enclosed/ controlled incineration I recommended unless otherwise directed by applicable ordinances.

### **HANDLING AND STORAGE:**

Keep containers closed when not in use. Store in a dry, cool, well-ventilated area. Keep this and all chemicals out of the reach of children.

**EMPTY CONTAINERS:** The container for this product can present explosion or fire hazards, even when emptied. To avoid the risk of injury, do not cut puncture or weld on or near this container. Since the empty container contains product residue, follow label warnings even after the container is emptied.

Alklybenzene Refrigeration Oil 150 MSDS

## **SECTION VIII – CONTROL MEASURES**

**Respiratory Protection (Specify Type):** Use in a well-ventilated area. If mist is being generated and exceeds the TLV, a respiratory program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed.

**Ventilation:** Local exhaust is recommended when used in enclosed areas, or if the product is heated or agitated. Where concentrations in air may exceed the limits given, and engineering, work practice, or other means of exposure reduction are not adequate, use a NIOSH approved air purifying respirator to limit exposure by inhalation.

**Protective Gloves:** Neoprene or nitrile gloves recommended to minimize skin contact. Other materials may be used if there is documented evidence of compatibility.

**Eye protection:** Where contact may occur, or is likely, wear safety glasses with side shields (ANSI Z87.1) or approved equivalent.

**Other Protective Clothing:** Where contact is possible with hot materials, wear thermal resistant gloves, arm protection and face shield. Use neoprene aprons, overshoes, oversleeves or other impervious clothing as necessary to minimize exposure.

**Work Hygienic Practices:** Use proper industrial hygiene practices to minimize hazardous exposure. Wash hands after handling this material, and before eating or smoking.

## **SECTION IX – ADDITIONAL INFORMATION**

**Transportation Information:**

DOT HAZARD LABEL: Not applicable  
U.S. Surface Freight Classification: Petroleum Oil, NOIBN

TSCA: This product is listed on the TSCA Inventory.

SARA TITLE III Reporting Requirements:

Section 302: EHS reporting not required

Section 304: Hazardous releases reporting not required

Section 311: Community Right To Know reporting is required if the inventory is above the Threshold

Planning Quantity

Section 312: R-T-K Inventory data reporting required for inventory above the TPQ

Section 313: Emissions and release reporting may be required for users of this product within the manufacturing sector. This does not apply to service companies.

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OSHA Hazard Communication Standard:

This product is not hazardous as defined in 29 CFR 1910.1200

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This information is, to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information, nor do we offer any warranty against patent infringement.