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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:

Telephone Numbers:

Dates:

Distributed by:

CHEMTREC

(800)424-9300

Date Created:
10/04/1994

Farnam Companies, Inc.

District of
Columbia

(202)483-0414

Revision: 06/26/2007

301 West Osborn Road

Farnam Companies,
In

(800)234-2269

Printed: 06/29/2007

Phoenix, AZ.

Additional Identity Information
77601

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 %
OSHA PEL	ACGIH TLV	
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 frothing 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 su 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):

> 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 ByproductsIn fire conditions, CO, CO₂, 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**

Supersedes Revision 04/25/2001

NFPA Hazard Ratings:	
Flammability	
Health	Instability
Special Hazard	
Minimal: 0	
Slight: 1	
Moderate: 2	
Serious: 3	
Extreme: 4	

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
DATE: 12/08

EMERGENCY: 800-424-9300
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; CO2 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.

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.

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.

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

Odor: Mild, distinct

Specific Gravity: ($H_2O=1$) 0.94-0.97

Solubility in Water: Negligible

Evaporation Rate (butyl acetate=1): Nil

Color: Gray to yellow or light brown tint

Boiling Point: >650 deg. F

Vapor Pressure: <0.01 mmHg @ 20 deg. C

Percent Volatiles: 0%

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 waste 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	CAS NO	OSHA	ACIGH	OTHER
% or		PEL	TLV	STEL
RNG				
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/m³ or less is recommended.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: >315°C	Specific gravity (H ₂ 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, CO₂, 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.

Alkylbenzene 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

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.