



<b>Flammability</b>	<b>1</b>
<b>Health</b>	<b>3</b>
<b>Reactivity</b>	<b>0</b>
<b>Special Hazard</b>	

### Section 1: Product and Company Identification

Product name:	HEAT TRANSFER Oil (B, E)
Product Use Description:	Heat Transfer Oil: For use in industrial closed heat transfer systems operating at bulk temperatures up to 320° C.
Company :	Jordan National Lube Oil Company Amman – Jordan. TEL: + 962 6 4794455 FAX: + 962 6 4740071 P.O.BOX: 556 Abu Alanda 11592 Jordan Website: www.sayeghgroup.com

### Section 2: Composition / Information On Ingredients.

Composition :	SN 150 Viscoplex 1-254
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### Section 3: Hazards Identification

US OSHA hazard communication standard for ( SN 500, SN 150):	Product assessed in accordance with OSHA 29 CFR 1910.1200 & determined to be hazardous.
Effects of overexposure:	No significant effects expected.
Emergency response data:	Black semi – solid. Dot ERG NO.- NA

### Section 4: First Aid Measures

Eye Contact:	Flush thoroughly with water for at least 15 min. If irritation occurs , call a physician
Skin contact:	Wash contact areas with soap & water Get medical attention if irritation developed.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

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Ingestion: If affected person is fully conscious, give one glass of water to drink. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

**Section 5: Fire-Fighting Measures**

Extinguishing media: Carbon dioxide, foam, dries chemical, and water fog.

Special fire fighting procedures: Water or foam may cause frothing. Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

Special protective equipment: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus (SCBA) and full turnout gear.

Unusual fire and explosion hazards : Storage tank headspace may contain flammable atmosphere.

NFPA hazard ID Health : 3, Flammability : 1, Reactivity : 0

Hazardous decomposition products Carbon monoxide, carbon dioxide, some metallic oxides.

Flammable limits: LEL: NA, UEL: NA.

**Section 6: Accidental Release Measures**

Accidental Release Measures: This material if slippery might cause traffic accident. If split on road, it must be cover with sand immediately. in the event of a spill or leak or accident person not wearing protective equipment & clothing should be restricted from contaminated areas until clean up has been completed.

the following steps should be undertaken following a spill or leak:

- 1- Notify safety personal.
- 2- Remove all sources of heat and ignition.
- 3- Ventilate potentially explosive atmospheres.
- 4- Do not touch the spilled material; stop the leak if it is possible to do so without risk.
- 5- Use water spray to reduce vapors; do not get water inside container. Do not flush waste to sewers or open waterways.
- 6- For liquid spills, cover with sand and then remove for later disposal.
- 7- Prevent spills from entering storm sewers or drains

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Personal precautions: Immediately contact emergency personnel.  
Keep unnecessary personnel away.  
Use suitable protective equipment (see section 8). Follow all fire-fighting procedures.

### Section 7: Handling And Storage.

Handling: Avoid contact with eyes, skin and clothing.  
Keep container closed.  
Use only with adequate ventilation.  
Avoid breathing vapor or mist.  
Wash thoroughly after handling.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.  
Store away from strong oxidizing agents or combustible material

### Section 8: Exposure Controls / Personal Protection

Respiratory protection: No special requirements under ordinary conditions of use and adequate ventilation.

Skin and body: No special equipment required. However, good Personal hygiene practices should always be followed.

Hands: Use chemical resistant apron and / or other clothing to protect against hot liquid & to avoid skin contact

Eyes: Normal industrial eye protection practices should be.

Engineering controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limits value.

### Section 9: Physical And Chemical Properties

Form: Liquid

Appearance: Bright and Clear,

Flash point for B: 220 °C (COC)

Pour point for B: -18 °C

VI for B: 100

Kinematic viscosity for B: 5.1 cSt @ 100 ° C Test Method: ASTM D 445.

Coif. Of Expansion per °C for B: 0.00076

Flash point for E: 220 °C (COC)

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Pour point for E:	-21 °C
VI for E:	37
Kinematic viscosity for E:	11 cSt @ 100 ° C Test Method ASTM D 445.
Coif. Of Expansion per °C for E:	0.00063

### Section 10: Stability And Reactivity

Stability:	The product is stable.
Material to avoid:	Strong oxidizing
Condition to avoid:	Extreme heat.
Hazardous decomposition products:	Sulfur oxides. Hydrogen sulfide. Carbon monoxide.

### Section 11: Toxicological Information

Inhalation	Irritating to respiratory system.
Ingestion	Not determined.
Skin contact	Non-irritating to the skin.
Eye contact	Irritating to eyes.
LD <sub>50</sub>	>2000 mg/kg

### Section 12: Ecological Information

Environmental Fate and effects: (SN 500, SN 150)	This product is expected to be inherently biodegradable. There is no evidence to suggest bioaccumulation will occur. It is not expected to be toxic to aquatic organisms. Accidental spillage may lead to penetration in the soil and groundwater. However, there is no evidence that this would cause adverse ecological effects.
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### Section 13: Disposal Considerations

Waste disposal	Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. Such burning may be limited pursuant to the resource conservation and recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.
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# Material Safety Data Sheet

## Zaitak Heat Transfer Oil



Jordan National Lube Oil Co.  
الشركة الوطنية الأردنية لصناعة الزيوت المعدنية

### RCRA Information

The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40CFR, Part 261D), nor is not formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosively, or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

### Section 14: Other Information

LD <sub>50</sub>	Lethal Dose (mg/kg)
PEL	Permissible Exposure Limits
NFPA	National Fire Protection Association:
PPE	Personal Protective Equipment
SCBA	Self – Contained Breathing Apparatus
TWA	Time – Weighted Average.
OSHA	Occupational Safety And Health Administration
ACGIH	American Conference of Governmental Industrial Hygienists

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