

INDUSTRIAL OILS UNLIMITED OF AR., INC  
 7268 WEST 70TH STREET  
 SHREVEPORT, LA 71129  
 318-686-7872

### MATERIAL SAFETY DATA SHEET

PRODUCT TRADE NAME: Sea Blue<sup>SM</sup> Hydraulic Oil 32, 46, 68  
 REVISION DATE: June 24, 1999  
 TRANSPORTATION EMERGENCY PHONE NUMBER (CHEMTREC): (800) 424-9300  
 CHEMICAL NAME: Petroleum Oil Blend  
 NFPA CODE: Health: 0 Fire: 1 Reactivity: 0  
 HMIS SYSTEM: Health: 0 Flammability: 1 Reactivity: 0

#### SECTION 1 HAZARDOUS INGREDIENTS

This material is not known to contain any chemical listed as a carcinogen or suspected carcinogen by OSHA, IARC or the National Toxicology Program (NTP) at a concentration greater than 0.1%.

This product is USDA H-1 authorized for use in food processing plants and contains no known hazardous components.

#### SECTION 2 FIRE AND EXPLOSION HAZARDS

FLASH POINT, °F: >340

UPPER FLAMMABLE LIMIT: Not determined

LOWER FLAMMABLE LIMIT: Not determined

EXTINGUISHING MEDIA: CO<sub>2</sub>; dry chemical; foam; water spray; water fog.

SPECIAL FIREFIGHTING PROCEDURES: Cool containers with H<sub>2</sub>O and remove from fire exposure.

UNUSUAL FIRE & EXPLOSION HAZARDS: Empty containers could contain flammable vapors.

#### SECTION 3 HEALTH HAZARD DATA

ORAL TOXICITY: None known.

EYE IRRITATION: May be an eye irritant.

SKIN IRRITATION:

SKIN IRRITATION: POSSIBLE redness and deratting may result from prolonged exposure.  
OTHER: Unknown  
TLV: 5 mg/m<sup>3</sup> as oil mist.

EMERGENCY FIRST AID PROCEDURES:

SKIN: Wash with soap and water.  
EYE: Flush with large amounts of water. If irritation persists, get medical attention.  
INHALATION: Remove to fresh air. See physician if irritation persists.  
ORAL: Call physician. Do not induce vomiting. Has a laxative effect.  
ADDITIONAL: None.

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SECTION 4 SPECIAL PROTECTION INFORMATION

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VENTILATION PROCEDURE: Normal shop ventilation adequate.  
GLOVE PROTECTION: Oil impervious gloves recommended.  
EYE PROTECTION: Not usually required, but goggles recommended.  
OTHER PROTECTION: None required.

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SECTION 5 PHYSICAL DATA

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VAPOR PRESSURE:	>1 mm Hg.	VAPOR DENSITY:	Not determined
SPECIFIC GRAVITY:	<1.00 @ 60°F	EVAPORATION RATE:	Not determined
WATER SOLUBILITY	slight	ODOR:	Odorless
PERCENT VOLATILE	Not determined	APPEARANCE:	See Blue Liquid

Product Trade Name: Sea Blue™ Hydraulic Oil 32, 46, 68

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**SECTION 6 STABILITY**

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STABILITY: Stable  
INCOMPATIBILITY: Oxidizing agents  
POLYMERIZATION: Will not occur  
THERMAL DECOMPOSITION: None

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**SECTION 7 SPILL OR LEAK PROCEDURES**

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SPILL PROCEDURES: Wear chemical splash goggles.  
Wear rubber boots.  
Prevent entry into sewers and waterways. Pick up free liquid for recycle/disposal.  
Absorb small amounts on inert material for disposal.

WASTE DISPOSAL: Disposal should be in compliance with federal, state and local laws.

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**SECTION 8 SPECIAL PRECAUTIONS**

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SPECIAL PRECAUTIONS: Avoid prolonged contact. Practice of good industrial hygiene recommended.

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**SECTION 9 TRANSPORTATION AND LABELING**

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DOT PROPER SHIPPING NAME: Not applicable  
DOT HAZARD CLASS: Not applicable

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**SECTION 10 OTHER REGULATORY INFORMATION**

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SARA SEC 313 SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40CFR372:

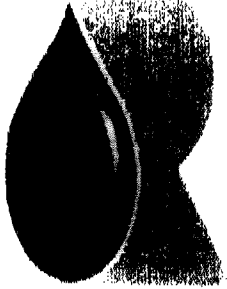
CAS#                      CHEMICAL NAME                      % WEIGHT

None

THIS INFORMATION MUST BE INCLUDED IN ALL MSDS'S THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL.

The information presented herein has been compiled from sources considered to be dependable and is accurate to the best of Ark La Lubricants' knowledge; however, Ark La Lubricants makes no warranty whatsoever, expressed or implied, of merchantability or fitness for the particular purpose, regarding the accuracy of such data or the results to be obtained from the use thereof. Ark La Lubricants assumes no responsibility for injury to recipient or to third persons or for any damage to any property and recipient assumes all such risks.

SeaBl<sup>TM</sup>Hyd.MSD



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## Simply The Best Environmentally Friendly Hydraulic Fluid!

Sea Blue costs less than similar products and is also available in bulk as well as drum capacity.

Sea Blue's exceptional thermal stability and oxidation life dramatically extend drain intervals while maintaining system cleanliness without varnish or sludge formation. Sea Blue exceeds the hydraulic fluid requirements of these and other pump and system manufacturers:

- Vickers
- Abex-Denison HF-0 and HF-2
- Cincinnati Milacron P-series
- Jeffrey
- Commercial Shearing
- Brown and Sharp
- Sunstrand
- Lee-Norse
- Rexnord
- Racine

<b>ISO Grade</b>	32	46	68
<b>Flash Point °F</b>	420	440	465
<b>Pour Point °F</b>	-26	-26	-26
<b>Gravity, API</b>	32.2	32.0	31.7
<b>Viscosity</b>			
40°C, cSt	33.7	47.2	66.3
100°C, cSt	5.6	6.8	8.5
<b>Viscosity Index</b>	103	101	100
<b>Rust Test, ASTM D-665</b>			
Distilled Water	Pass	Pass	Pass
Synthetic Sea Water	Pass	Pass	Pass
<b>Foaming Characteristics</b>			
ASTM D-892	Pass	Pass	Pass

<b>Oxidation Stability</b>	10,000+	10,000+	10,000+
<b>Demulsibility</b>			
<b>Minutes to 3ml</b>	Pass	Pass	Pass
<b>Minutes to 0ml</b>	Pass	Pass	Pass
<b>Color</b>	Blue	Blue	Blue
<b>4 Ball Wear Scar, 75°C</b>			
<b>1200rpm, 40Kg, mm</b>	0.30	0.30	0.30
<b>FZG Test, Pass Stage</b>			
<b>DIN 51384 min</b>	10	10	10

### Features and Benefits

- Formulated to be inherently more biodegradable
- Non-sheening on the water, as required by the U.S. Coast Guard
- Excellent water separating properties
- Superior oxidation stability for extended drain life
- High VI for wide operating temperature range
- Passes the U.S. EPA LC50 shrimp test requirements, which minimize long term environmental concerns