

# Material Safety Data Sheet

## 1. General Information

Product Name: **Hydraulic AW 32, 46, 68**

REVISED 7/28/2010

Emergency Telephone Number: CHEMTREC 1-800-424-9300

## 2. Composition/Information on Ingredients

Exposure Guidelines		OSHA		ACGIH		UNIT	
Component/CAS Number	LO%	HI%	TWA	STEL	TWA	STEL	UNIT
Limits for the product			5		5		MG/M3
Severely Solvent Refined Heavy Paraffinic Petroleum Oil							
64741-88-4	90.00	100.00	5		5		MG/M3
Zinc Dialkyl Dithiophosphate							
68649-42-3	0.00	1.00					No Specific Limit
Calcium Sulfonate							
61789-86-4	.00	1.00					No Specific Limit
Acrylic Copolymer							
68171-46-0	.00	1.00					No Specific Limit
2-Ethylhexanol							
104-76-7	.00	1.00					No Specific Limit

Additional Exposure Limits -----Government Regulation

Other Limit – Oil Mist: 5MG/M3 OSHA PEL/ACGIH TLV

## 3. Hazard Identification

Appearance: Amber Fluid

Odor: Slight Odor

Inhalation: No effects expected.

Ingestion: Practically non-toxic.

Eye Contact: Expected to be minor eye irritant.

Skin Contact: Practically non-toxic if absorbed (LD50>2000 MG/KG). May cause moderate irritation with prolonged or repeated contact.

Carcinogen Listed By: IARC(NO) NTP(NO) OSHA9(NO) ACGIH(NO) OTHER(NO)

## 4. First Aid Measures

Inhalation: Move to fresh air.

Eye Contact: Flush with water for at least 15 minutes. If irritation persists, obtain medical assistance.

Skin Contact: Wash with soap and water until no odor remains. If redness or swelling develops, obtain medical assistance.

Wash clothing before reuse.

Ingestion: Practically non-toxic. Induction of vomiting not required. Obtain emergency medical attention.

### NFPA/HMIS CLASSIFICATION

**HEALTH – 0/0**

**FLAMMABILITY – 1/1**

**REACTIVITY – 0/0**

### HAZARD RATING

**0=LEAST 1=SLIGHT**

**2=MODERATE 3=HIGH**

**4=EXTREME**

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## 5. Fire Fighting Measures

Flashpoint (method): 395°F Minimum COC; 201°C Minimum COC

Flammable Limits: Not established

Autoignition Temp: 675°F Estimated; 359°C Estimated

Extinguishing Media: Water spray, dry chemical, carbon dioxide (CO<sub>2</sub>), foam.

Fire Fighting Instructions: Avoid breathing smoke and vapor.

Fire Fighting Equipment: Wear self-contained breathing apparatus and protective clothing. Use water spray to keep fire-exposed containers cool.

Hazardous Combustion Products: Normal combustion forms carbon dioxide and water vapor; incomplete combustion can produce carbon monoxide.

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## 6. Accidental Release Measures

Spills or Leaks: Contain spill, advise EPA; state agency if required. Absorb on inert material, shovel, sweep or vacuum spill.

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## 7. Handling and Storage

NFPA Class IIIB Storage. Wash thoroughly after handling.

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## 8. Exposure Controls/Personal Protection

Ventilation: Ventilate as needed to comply with exposure limit. General dilution ventilation acceptable.

Eye: Splash proof chemical goggles recommended to protect against splash of product.

Gloves: Protective gloves recommended when prolonged skin contact cannot be avoided. The following glove material is acceptable: polyvinyl chloride (PVC); neoprene; nitrile; polyvinyl alcohol; viton.

Respirator: Concentration in air determines protection needed. Use only NIOSH certified respiratory respirator with dust/mist filters or HEPA filter cartridges is acceptable to 10 times the exposure limit. Full face air purifying respirator with dust/mist filters of HEPA filter cartridges is acceptable to 50 times the exposure limit. Protection by air purifying respirators is limited. Use a positive pressure demand full face supplied air respirator or SCBA for exposures above 50X the exposure limit. If exposure is above IDLH (immediately dangerous to life and health) or there is the possibility of an uncontrolled release or exposure levels are unknown then use a positive pressure demand full face supplied air respirator with escape bottle or SCBA. Other: If contact is unavoidable, wear chemical resistant clothing. The following materials are acceptable as protective clothing materials: polyvinyl alcohol (PVA); polyvinyl chloride (PVC); neoprene; nitrile; viton; polyurethane; launder soiled clothes.

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## 9. Physical and Chemical Properties

Appearance/Odor: Amber Fluid/Motor oil Odor.

Vapor Pressure: <0.0001 (MM HG @ 20°C)

Molecular Weight: N/A (G/Mole)

Solubility in Water: NIL (% by volume)

Evaporation Rate: 1000X Slower (Ethyl Ether=1)

Specific Gravity: 0.86 (Water=1)

Viscosity: 150 SUS @ 100°F    32 CST @ 40°C

Boiling Point: High

Melting Point: N/A

Packing Density: N/A

Octanol/Water COEFF: N.D.

Odor Threshold: N.D.

Vapor Density: 10+ (air=1)

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## 10. Stability and Reactivity

Stability: Stable

Conditions to Avoid: None known.

Materials to Avoid: Strong oxidizing agents.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition: Combustion will produce carbon monoxide and asphyxiates.

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## 11. Toxicological Information

Inhalation: Low acute toxicity.

Skin: Practically non-toxic if absorbed. Mild irritation with prolonged or repeated contact.

Eye: Mildly irritating on contact.

Oral: Practically non-toxic

Severely solvent refined heavy paraffinic petroleum oil inhalation: Low acute toxicity.

Ingestion: Practically non-toxic if swallowed.

Butylated Phenol: No data available for all routes of exposure.

Zinc Dialkly Dithiophosphate: Toxic hydrogen sulfide is generated when heated above 200°F. This can cause central nervous system (brain) effects, nausea, dizziness, confusion, and loss of sense of smell, muscle cramps, in coordination, unconsciousness, coma, respiratory failure, or death.

Acrylic Copolymer: No data available for all routes of exposure.

2-Ethylhexanol: Overexposure may cause nose, throat irritation, nasal discomfort and discharge, chest pain, cough, headache, nausea, vomiting. May cause corneal injury. May cause abdominal discomfort, nausea, vomiting, and diarrhea.

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## 12. Ecological Information

Ecotoxicity: No data available

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## 13. Disposal Information

Follow federal, state and local regulations. Not RCRA hazardous waste if uncontaminated. If "used", RCRA criteria (ignitability, reactivity corrosively, toxicity characteristics) must be determined. Do not flush to drain/storm sewer. Contract to authorized disposal service.

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## 14. Transportation Information

DOT

Proper Shipping Name: Petroleum Lubricating Oil

Hazard Class: Not regulated

ID Number: Not regulated

Label Required: Not regulated

IMDG Proper shipping name: N.D.

IATA Proper shipping name: N.D.

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## 15. Regulatory Information

TSCA: This material complies with the TOXIC SUBSTANCES CONTROL ACT (15 USC 2601-2629) and is listed in the TSCA inventory.

SARA 302 THRESHOLD PLANNING QUANTITY,

N/A

SARA 304 REPORTABLE QUANTITY

N/A

SARA 311/312 REPORTING:

Health

Immediate (Acute)

No

Health

Delayed (Chronic)

No

Physical

Fire

No

Physical

Sudden Release of Pressure

No

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## 16. Other Information

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