

## MATERIAL SAFETY DATA SHEET

### SECTION 1: PRODUCT IDENTIFICATION

Product Name: **Hartland Premium AW Hydraulic Oils 22, 32, 46, 68, 100, 220**

Distributor: **Hartland Lubricants & Chemicals**

914 Commercial Court

Onalaska, WI 54650

Information: 608-779-6353

Chemical Name: Hydraulic Oil

Chemical Family: Blend

Revision Date: 2-1-12

**24 HOUR PROFESSIONAL EMERGENCY RESOURCE SERVICES (PERS) 1-800-633-8253**

### SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

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

Additional Exposure Limits

Other Limit – Oil Mist: 5MG/M3

Government Regulation

OSHA PEL / ACGIH TLV

### SECTION 3: HAZARD IDENTIFICATION

Emergency Overview

May cause skin irritation

Appearance: Amber Fluid

Odor: Slight Odor

Potential Health Effects

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)

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## **SECTION 4: FIRST AID MEASURES**

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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. Small amounts which accidentally enter mouth should be rinsed out until taste of it is gone.

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## **SECTION 5: FIRE FIGHTING MEASURES**

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Flashpoint (method): 405°F Minimum COC; 207°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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## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

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## **SECTION 7: HANDLING AND STORAGE**

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NFPA Class IIIB Storage: Wash thoroughly after handling.

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## **SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

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

Personal Protection Equipment

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 or 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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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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Appearance/Odor: Amber Fluid/Slight 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: 330 SUS @ 100°F 68 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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## SECTION 10: STABILITY AND REACTIVITY

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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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## SECTION 11: TOXICOLOGICAL INFORMATION

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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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## SECTION 12: ECOLOGICAL INFORMATION

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Ecotoxicity: No data available

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## SECTION 13: DISPOSAL INFORMATION

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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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## SECTION 14: TRANSPORTATION INFORMATION

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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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**SECTION 15: REGULATORY INFORMATION**

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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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**SECTION 16: OTHER INFORMATION**

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The information on this form is furnished solely for the purpose of compliance with the OSHA Act, and shall not be used for any other purpose. The information herein is given in good faith and is based on data considered accurate. However, no warranty, expressed or implied, is made regarding the accuracy of these data or the results to be obtained from the use thereof.

NFPA/HMIS CLASSIFICATION	HAZARD RATING		
HEALTH – 0/0	0=LEAST	1=SLIGHT	
FLAMMABILITY – 1/1	2=MODERATE	3=HIGH	4=EXTREME
REACTIVITY – 0/0			