

Hartland Lubricants & Chemicals
914 Commercial Court
Onalaska, WI 54650
608-779-6353

MATERIAL SAFETY DATA SHEET

SECTION 1: GENERAL INFORMATION

Product Name: **Hartland Low Temp Tractor Hydraulic Fluid J20D**
Revision Date: November 29, 2011

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

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

| Exposure Guidelines | | OSHA | | | ACGIH | | UNIT |
|---|-------|----------------------|-----|------|-------|-------------------|-------|
| Component/CAS Number | LO% | HI% | TWA | STEL | TWA | STEL | |
| Limits for the product | | | 5 | | 5 | | MG/M3 |
| Severely Solvent Refined Heavy Paraffinic Petroleum Oil | | | | | | | |
| 64741-88-4 | 80.00 | 95.00 | 5 | | 5 | | MG/M3 |
| Zinc Dialkyl Dithiophosphate | | | | | | | |
| 68649-42-3 | .00 | 1.50 | | | | No Specific Limit | |
| Calcium Sulfonate | | | | | | | |
| 61789-86-4 | .00 | 5.00 | | | | 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 | |
| Polymer of Styrene & Naleic C4-C20 Dialkyl Esters | | | | | | | |
| 68910-21-4 | .00 | 5.00 | | | | No Specific Limit | |
| Toluene | | | | | | | |
| 108-88-3 | .00 | 1.00 | 100 | 150 | 50 | | |
| Additional Exposure Limits -----Government Regulation | | | | | | | |
| Other Limit – Oil Mist: 5MG/M3 | | OSHA PEL / ACGIH TLV | | | | | |

SECTION 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)

SECTION 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.

SECTION 5: FIRE FIGHTING MEASURES

Flashpoint (method): 390°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 (CO₂), 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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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

SECTION 7: HANDLING AND STORAGE

NFPA Class IIIB Storage. Wash thoroughly after handling.

SECTION 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.

SECTION 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: 58.3 SUS @ 210°F 58.9 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)

SECTION 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.

SECTION 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 Dialkyl 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.

Calcium Sulfonate: Moderate skin irritation. Can cause allergic reaction in animals. Moderate to severe eye irritation.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: No data available

SECTION 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.

SECTION 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.

SECTION 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 |

SECTION 16: OTHER INFORMATION

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. While we believe this data is accurate as of revision date, we make no warranty with respect to the data and we expressly disclaim all liability for reliance thereon. The data is offered solely for your information, investigation, and verification.

NFPA/HMIS CLASSIFICATION

HEALTH – 0/0

FLAMMABILITY – 1/1

REACTIVITY – 0/0

HAZARD RATING

0=LEAST

2=MODERATE

4=EXTREME

1=SLIGHT

3=HIGH