

Material Safety Data Sheet

Date Revised: 09.26.2013
Supersedes: 05.09.2005

Section 1: Product and Company Identification

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

Product ISO	ISO 15	ISO 22	ISO 32	ISO 46	ISO 68
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Product Name **Hartland Synthetic Anti-Wear Hydraulic Oils**
Product Use LUBRICATING OIL

PERS Professional Emergency Resource Services – 24 Hour Emergency Contact Number 800-633-8253

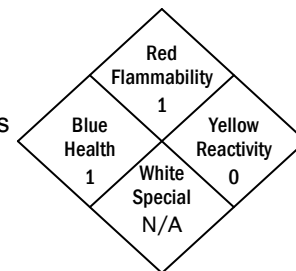
Section 2: Composition/Information on Ingredients

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

This product is not formulated to contain ingredients that have exposure limits exceeding those established by US agencies

*See Section 8 for exposure limits.

NFPA & HMIS Rating



Section 3: Hazards Identification

POTENTIAL HEALTH EFFECTS: Minor eye, inhalation and skin irritant.

*See Section 11 for toxicological information.

Section 4: First Aid Measures

- EYE: Flush with water for 15-20 minutes. Seek medical attention if irritation develops.
- SKIN: Wash immediately with soap and water. Remove contaminated clothing and launder before reuse. Discard shoes and leather articles saturated with the product. Obtain medical advice if irritation occurs.
- INHALATION: Remove exposed person to fresh air. If breathing is labored give oxygen. If breathing has stopped apply artificial respiration. Get immediate medical attention.
- INGESTION: DO NOT INDUCE VOMITING. If conscious, give 2 glasses of water. If vomiting does occur, keep head below hips to reduce risk of aspiration. Get immediate medical attention.

Section 5: Fire Fighting Measures

FLAMMABILITY PROPERTIES:

	ISO 15	ISO 22	ISO 32	ISO 46	ISO 68
Flash Point	341°F(172°C)	345°F(174°C)	471°F(244°C)	460°F(238°C)	467°F(242°C)

Method COC ASTM D-92
LFL/UFL Not Determined
Auto-ignition Temperature Not Determined

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, and alcohol foam.

FIREFIGHTING EQUIPMENT: Full bunker gear recommended including a positive pressure self-contained breathing apparatus.

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Section 6: Accidental Release Measures

Isolate spill area. Provide adequate ventilation. Wear appropriate personal protection. Recover free product for recycle and/or disposal. Add sand, earth or other suitable absorbent to spill area. Prevent entry into sewers and waterways. Check under Transportation and Labeling (DOT/CERCLA) and Other Regulator Information Section (SARA) for hazardous substances to determine regulatory reporting requirements for spill.

Section 7: Handling and Storage

HANDLING: Keep containers closed. Avoid contact with eyes, skin or clothing. Wash hands after handling. Empty container may retain product residue which may exhibit hazards of product.

STORAGE: Keep away from heat or flame.

Section 8: Exposure Controls/Personal Protection

VENTILATION: Use adequate general or local exhaust ventilation to keep airborne concentrations below exposure limits.

RESPIRATORY: Use a NIOSH approved respirator when necessary.

SKIN: Use Viton or Nitrile gloves to avoid prolonged or repeated skin contact.

EYE: Use splash goggles or face shield where splashing is expected or can occur.

EXPOSURE LIMITS: The Threshold Limit Value (TLV) of 5 mg/m³ is suggested for oil mist.

Section 9: Physical and Chemical Properties

	ISO 15	ISO 22	ISO 32	ISO 46	ISO 68
Physical State	Liquid				
Boiling Point	Not Determined				
Freezing/Melting Point	-89°F(-67°C)	-85°F(-65°C)	-70°F(-57°C)	-60°F(-51°C)	-54°F(-48°C)
Vapor Pressure	Not Determined				
Vapor Density (Air=1)	Negligible				
Evaporation Rate	Not Determined				
Solubility in Water	Negligible				
Specific Gravity (Water=1)	0.8294	0.8363	0.8576	0.8591	0.8670
Density, lb./gal.	6.906	6.964	7.141	7.153	7.219
Volatility (Volume)	Negligible				
VOC	Unknown				
PH	Essentially Neutral				
Odor	Mild, Bland, Hydrocarbon Odor				
Odor Threshold	Not Determined				
Appearance	Light Straw Transparent Colored Liquid				
Viscosity, cSt @ 100°C	4.55	5.83	6.75	9.10	11.73
Viscosity, cSt @ 40°C	15.23	20.93	32.46	47.48	66.99
Viscosity Index	244	250	172	177	172

Section 10: Stability and Reactivity

STABILITY: Stable under moderately elevated temperatures and pressures.

INCOMPATIBILITY: Avoid contact with strong oxidants.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION OF PRODUCT: Toxic oxides of carbon, aldehydes and other products of incomplete combustion.

Section 11: Toxicological Information

ACUTE EXPOSURE

Eye Irritation: Moderate to strong eye irritation. Based on data from components or similar material.

Skin Irritation: Not expected to be a primary skin irritant. Based on data from components or similar material. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, defatting, and cracking of the skin.

Respiratory Irritation: If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract similar to that observed with mineral oil. Based on data from components or similar materials. Under good industrial hygiene practices where all exposure limits are observed, respiratory irritation should not be a problem.

CHRONIC EXPOSURE

Chronic Toxicity: No data available to indicate product present at greater than 1.0% are chronic health hazards.

Carcinogenicity: No data available to indicate product present at greater than 0.1% are a carcinogenic hazard.

Mutagenicity: No data available to indicate product present at greater than 1.0% present a mutagenic or genotoxic hazard.

Reproductive Toxicity: No data available to indicate product present at greater than 1.0% present a reproductive hazard.

Teratogenicity: No data available to indicate product present at greater than 1.0% present a teratogenic hazards.

ADDITIONAL INFORMATION

Exposure Limits: Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter.

Section 12: Ecological Information

No data available on the adverse effects of this product on the environment.

Section 13: Disposal Considerations

If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Section 14: Transport Information

This product is not classified as hazardous material for DOT shipping. For further information relative to spills resulting from transportation incidents, refer to the latest DOT Emergency Response Guidebook for Hazardous Materials.

Section 15: Regulatory Information

U.S. Federal Regulations

- OSHA Table Z Synthetic Base Stock(mist)
- TSCA Not Applicable
- CERCLA 40 CFR 302.4 Zinc Compounds @0.63-0.74%, RQ 1 lb
- SARA Title III
 - Section 302 Extremely Hazardous..... Not Applicable
 - Section 311/312
 - Fire Hazard Yes
 - Reactive Hazard No
 - Release of Pressure..... No
 - Acute Health Hazard Yes
 - Chronic Health Hazard No
 - Section 313 Toxic Chemical..... Not Applicable

U.S. State Regulations

- California (Prop 65)
 - Does not contain chemicals known to the state of California to cause cancer.

International Regulations

- WHMIS All components listed

Section 16: Other Information

The information and recommendations contained herein are, to the best of our knowledge and belief, accurate and reliable as of the date issued. We makes no warranty or guarantee, expressed or implied, of their accuracy or reliability, and we shall not be liable for any loss or damage based upon the criteria supplied by the developers of these rating systems, together with our interpretation of the available data.