

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** Hartland Syn Low Pour ISO 22

**PRODUCT USE/CLASS:** Premium quality, synthetic anti wear hydraulic fluid developed for use in a wide variety of industrial applications where extreme-temperature conditions exist.

**EMERGENCY TELEPHONE:** 1-800-633-8253  
24 Hour Professional Emergency Resource Services (PERS)

**DISTRIBUTOR:** Hartland Lubricants & Chemicals  
2455 Commercial Drive  
Sparta, WI 54656  
608-487-9770  
www.hartlandlubes.com

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**SECTION 2: HAZARDS IDENTIFICATION**

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**APPEARANCE**

Amber fluid, petroleum odor

**HEALTH HAZARDS**

May be harmful if swallowed. May irritate eyes and skin.

**POTENTIAL HEALTH EFFECTS**

**INHALATION:** This product is not likely to present an inhalation hazard at normal temperatures and pressures. However, when aerosolizing, misting, or heating of this product, high concentrations of generated vapor or mist may irritate the respiratory tract (nose, throat, and lungs).

**EYES:** May cause irritation.

**SKIN:** May cause irritation. Not likely to be absorbed through the skin in harmful amounts.

**INGESTION (SWALLOWING):** Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Individuals with pre-existing respiratory tract (nose, throat, and lungs), eye and/or skin disorders may have increased susceptibility to the effects of exposure.

**GHS LABEL ELEMENTS**  
Symbols(s)



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**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

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Wt. Percent Component	Synonym	CAS #
0.1 — 0.5 Zinc dialkyl dithiophosphate	Not Available	68649-42-3

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**SECTION 4: FIRST AID MEASURES**

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**Inhalation (Breathing):** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Someone should stay with victim. Get medical attention if breathing difficulty persists.

**Eye Contact:** If irritation or redness from exposure to vapor develops, move away from exposure into fresh air. Upon contact, immediately flush eyes with plenty of lukewarm water, holding eyelids apart, for 15 minutes. Get medical attention.

**Skin Contact:** Remove affected clothing and shoes. Wash skin thoroughly with soap and water. Get medical attention if irritation or pain develops or persists. If product is injected under pressure into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, a physician should immediately evaluate the individual as a medical emergency.

**Ingestion (Swallowing):** Do NOT induce vomiting. Immediately get medical attention. If spontaneous vomiting occurs, keep head below hips to avoid breathing the product into the lungs. Never give anything to an unconscious person by the mouth.

**NOTES TO PHYSICIAN:** Treat symptomatically and supportively. Treatment may vary with condition of victim and specifics of incident.

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**SECTION 5: FIRE FIGHTING MEASURES**

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**FLASH POINT (METHOD USED):** 400°F (204°C) (minimum) Cleveland Open Cup

**FLAMMABLE LIMITS IN AIR:** Lower: Not Available      Upper: Not Available

**AUTOIGNITION TEMPERATURE:** Not available

**HAZARDOUS COMBUSTION PRODUCTS:** Smoke, Fume, Incomplete combustion products, Oxides of Carbon.

**CONDITIONS OF FLAMMABILITY:** Sparks or flame. Products may burn, but does not ignite readily.

**EXTINGUISHING MEDIA:** Carbon dioxide, regular foam, dry chemical, water spray, or water fog. Water or foam may cause frothing.

**FIRE FIGHTING INSTRUCTIONS:** Keep storage containers cool with water spray. A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies. Heated containers may rupture. "Empty" containers may retain residue and can be dangerous. Products are not sensitive to mechanical impact or static discharge.

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## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in **Section 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION**. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. Contain spill away from surface water and sewers. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean spark-proof tool into a sealable container for disposal. Additionally, for large spills: Dike far ahead of liquid spill for collection and later disposal.

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

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**HANDLING:** Keep away from sparks or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean tools. When transferring large volumes of product, metal containers, including trucks and tank cars, should be grounded and bonded. This product has a low vapor pressure and is not expected to present an inhalation hazard under normal temperatures and pressures. However, when aerosolizing, misting, or heating this product, do not breathe vapor or mist. Use in a well-ventilated area. Avoid contact with eyes, skin, clothing and shoes.

**SHIPPING AND STORING:** Keep container tightly closed when not in use and during transport. Store containers in a cool, dry place. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain residue and can be dangerous.

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## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

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**Exposure limits/standards for materials that can be formed when handling this product:** When mists/aerosols can occur the following are recommended: 5mg/m<sup>3</sup> — ACGIH TLV (inhalable fraction), 5 mg/m<sup>3</sup> — OSHA PEL.

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

**ENGINEERING CONTROLS:** Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below applicable exposure limits.

### PERSONAL PROTECTIVE EQUIPMENT

**RESPIRATORY PROTECTION:** No respiratory protection is normally required under normal conditions of use. If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Consult a qualified Industrial Hygienist or Safety Professional for respirator selection guidance.

**EYE PROTECTION:** Where eye contact is likely, wear safety glasses; contact lens use is not recommended.

**SKIN PROTECTION:** Where skin contact is likely, wear neoprene, nitrile or equivalent protective gloves; use of natural rubber or equivalent gloves is not recommended. When product is heated and skin contact is likely, wear heat-insulating gloves, boots, and other protective clothing. To avoid prolonged or repeated contact where spills and splashes are likely, wear appropriate chemical-resistant face shield, boots, apron, coveralls, long sleeve shirts, or other protective clothing.

**PERSONAL HYGIENE:** Use good personal hygiene. Wash thoroughly with soap and water after handling product and before eating, drinking, or using tobacco products. Clean affected clothing, shoes, and protective equipment before reuse. Discard leather articles, such as shoes, saturated with these products.

**OTHER PROTECTIVE EQUIPMENT:** Where spills and splashes are likely, facilities storing or using this product should be equipped with emergency eyewash and shower, both equipped with clean water, in the immediate work area.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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<b>PHYSICAL STATE, APPEARANCE:</b>	Amber Liquid
<b>ODOR:</b>	Petroleum Odor
<b>ODOR THRESHOLD:</b>	Not Available
<b>MOLECULAR WEIGHT:</b>	Not Applicable
<b>SPECIFIC GRAVITY:</b>	0.82 (Estimated) (water=1) (approximately)
<b>VAPOR DENSITY:</b>	>1 (Air = 1)
<b>VAPOR PRESSURE:</b>	less than 0.1 mm Hg at 68°F (20°C)
<b>RELATIVE DENSITY:</b>	0.822 g/cm <sup>3</sup> at 60°F (15.5°C)
<b>INITIAL BOILING POINT:</b>	Not Available
<b>BOILING RANGE:</b>	Not Available
<b>FREEZING/MELTING POINT:</b>	Not Available
<b>pH:</b>	Not Applicable
<b>EVAPORATION RATE:</b>	Not Available
<b>SOLUBILITY IN WATER:</b>	Insoluble
<b>FLASH POINT:</b>	400°F (65°C) (minimum) Cleveland Open Cup204
<b>FLAMMABILITY:</b>	Not Available
<b>FLAMMABLE LIMITS IN AIR:</b>	<b>LOWER:</b> Not Available <b>UPPER:</b> Not Available
<b>AUTOIGNITION TEMPERATURE:</b>	Not Available

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**SECTION 10: CHEMICAL STABILITY AND REACTIVITY INFORMATION**

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**STABILITY:** Stable under normal temperatures and pressures. Avoid sparks, or flame.

**INCOMPATIBILITY:** Avoid strong oxidizing agents.

**REACTIVITY:** Polymerization is not known to occur under normal temperatures and pressures. Not reactive with water.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None under normal temperatures and pressures. Also see **Section 5: Hazardous Combustion Products.**

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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**ROUTES OF EXPOSURE:** Skin, Eyes, Ingestion, and Inhalation.

**ACUTE EFFECTS:** May be harmful if swallowed. May irritate eyes and skin. May cause throat irritation, nausea, vomiting and diarrhea. Aspiration hazard: Breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death.

**SENSITIZATION:** Based on best current information, there is no known human sensitization associated with this product.

**MUTAGENICITY:** Based on best current information, there is no known mutagenic associated with this product.

**CARCINOGENICITY:** Based on best current information, there is no known carcinogenicity as regulated by OSHA; as categorized by ACGIH A1 or A2 substances; as categorized by IARC Group 1 Group 2A, or Group 2B agents as either known carcinogens or substances for which there is limited evidence of carcinogenicity in humans or sufficient evidence of carcinogenicity in experimental animals.

**REPRODUCTIVE TOXICITY:** Based on best current information, there is no known reproductive toxicity associated with this product.

**TERATOGENICITY:** Based on best current information, there is no known teratogenicity associated with this product.

**NEUROTOXICITY:** No information available for this product.

**TOXICITY DATA:**

**Component Analysis — LD50/LC50**

**Zinc dialkyl dithiophosphate (68649-42-3)**

**Dermal LD50 Rat >2000 mg/kg**

**Oral LD50 Rat >2000 mg/kg**

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**SECTION 12: ECOLOGICAL INFORMATION**

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**ECOTOXICITY:** Not expected to be harmful to aquatic organisms.

**PERSISTENCE/DEGRADABILITY:** Not readily biodegradable.

**BIOACCUMULATIVE POTENTIAL:** No information available for the product.

**MOBILITY IN ENVIRONMENTAL MEDIA:** Low solubility and floats, expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

**OTHER ADVERSE EFFECTS:** Not Available

**OCTANOL/WATERPARTITION COEFFICIENT:** Not Available

**VOLATILE ORGANIC COMPOUNDS:** Not Available

**AQUATIC RELEASE:** Advise authorities if product has entered or may enter watercourses or sewer drains.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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**DISPOSAL:** Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste.

**USEPA WASTE CODES:** This product, if discarded, is not expected to be a characteristic or listed hazardous waste. If recycled in the USA, it must be managed in accordance with 40 CFR Part 279. Processing, use, or contamination by user may change the waste code(s) applicable to the disposal of these products.

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**SECTION 14: TRANSPORTATION INFORMATION**

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**LAND (DOT):**

**(Shipping Name)** Not regulated as a hazardous material for Land Transport.

**LAND (TDG):**

**(Shipping Name)** Not regulated as a dangerous good for Land Transport.

**EMERGENCY RESPONSE GUIDE NUMBER:** Not applicable  
Reference North American Emergency Response  
Guidebook

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**SECTION 15: REGULATORY INFORMATION**

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**USA REGULATIONS**

**SARA SECTIONS 302, 304** Based on the ingredients listed in **SECTION 3**, this product does not contain any "extremely hazardous substances" listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.

**SARA SECTIONS 311 AND 312 REPORTING** This product poses the following health hazard(s) as defined in 40 CFR Part 370 and is subject to the requirements of sections 311 and 312 of Title III of Superfund Amendments and Reauthorization Act of 1986 (SARA):

Immediate (Acute) Health Hazard	No
Delayed (Chronic) Health Hazard	No
Physical Fire	No
Physical Sudden Release of Pressure	No
Physical Reactive	No

**SARA SECTION 313** This material contains the follow chemical(s) subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

Zinc dialkyl dithiophosphate	0.1 — 0.5
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**CERCLA** Based on the ingredients listed in **SECTION 3**, this product does not contain any "hazardous substances" listed pursuant to the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4.

**TSCA:** All components of this product are listed on the US TSCA Inventory, or are exempted from the requirements.

**CALIFORNIA:** This product contains trace amounts of the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm which would require a warning under the statute: Arsenic, Lead, Cadmium, Ethylene oxide, Propylene oxide, 1,4 Dioxane.



The Following Ingredients are cited as follows:

Chemical Name	CAS Number	REGULATORY LIST CITATION(S)
Zinc dialkyl dithiophosphate	68649-42-3	MI 293 NJ RTK

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**SECTION 16: OTHER INFORMATION**

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**DATE ISSUED:** September 3, 2014

**SUPERSEDES:** New Issue

**VER. No.** 0

**REVISION INFORMATION:** Not applicable.

**LABEL/OTHER INFORMATION:** Not available.

**Disclaimer of Liability**

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