

Preferred Industrial Material Safety Data Sheet

Envira - BioPure Hydraulic Oil

Supplier: Preferred Industrial

#3160-21331 Gordon Way, Richmond, BC Canada V6W 1J9

24 HOUR EMERGENCY ASSISTANCE: Chemtrec: (800) 424-9300

GENERAL MSDS ASSISTANCE: 604-230-6030 or TF: 1-866-522-1600

DATE PREPARED: May 01, 2008

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PRODUCT NAME: BioPure Hydraulic Oil

HMIS CODE: Health – 0 Fire – 1 Reactivity – 0 Protection - B

CHEMICAL FAMILY: GLYCERIDE OIL- Based Fluid

SECTION I - COMPOSITION/INFORMATION ON INGREDIENTS

Compound	CAS #	OSHA TWA	OSHA STEL	ACGIH STEL
Soybean Oil 8001-22-7	15 mg/m ³ *	---	---	---
Additives Mixture**	Confidential	---	---	---

* OSHA TWA limit of 15 mg/m³ is for vegetable oil mist; however BioPure is resistant to mist formation

**The specific chemical identity is being withheld as a trade secret by the additive supplier.

--- Not established

THE PRECISE COMPOSITION OF THIS PRODUCT IS PROPRIETARY INFORMATION. A MORE COMPLETE DISCLOSURE WILL BE PROVIDED TO A PHYSICIAN IN THE EVENT OF A MEDICAL EMERGENCY.

SARA HAZARD: NONE NOTED (SECNON 311/312) TITLE III SECTION 313 - NOT LISTED

All components of this product are listed on the TSCA registry.

SECTION II - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE: Not applicable

VAPOR DENSITY: Exceeds 1.0

SPECIFIC GRAVITY (H₂O=1.0): 0.892

VAPOR PRESSURE: Not applicable

PERCENT VOLATILE BY VOLUME: ND

SOLUBILITY IN WATER: Insoluble

EVAPORATION RATE: Not applicable

APPEARANCE AND ODOR: Amber oily liquid with faint odor.

WEIGHT PER GALLON: 7.44 lbs. at 60°F.

SECTION III - FIRE AND EXPLOSION DATA

FLAMMABILITY CLASSIFICATION: Combustible Liquid - Class IIIB.

FLASH POINT: 208°C (406°F).

EXTINGUISHING MEDIA: CO₂, dry chemical, sand.

SPECIAL FIREFIGHTING PROCEDURES: Avoid use of water as it may spread fire by dispersing oil. Use water to keep fire-exposed containers cool.

SECTION IV - REACTIVITY DATA

STABILITY: Product is stable under normal usage conditions.

CONDITIONS TO AVOID: High surface area exposure to oxygen can result in polymerization and release of heat.

INCOMPATIBILITY (MATERIALS TO AVOID): None

HAZARDOUS DECOMPOSITIONS OR BY-PRODUCTS: None

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: As a liquid - none.

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Excessive inhalation of fluid mist may affect the respiratory system. Oil mist is classified as a nuisance particulate by ACGIH.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Sensitive individuals may experience dermatitis after long exposure of oil on skin.

HEALTH HAZARDS (ACUTE AND CHRONIC): Acute: none observed by inhalation. Chronic: none reported.

EMERGENCY AND FIRST AID PROCEDURES FOR:

- **SKIN CONTACT:** May be removed from skin by washing with soap and warm water.
- **INHALATION:** Expose individual to fresh air source.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Depending on quantity of spill: (a) Small spill - add solid adsorbent, shovel into disposable container and hose down area. Clean area with detergent. (b) Large spill - Squeegee or pump into holding container. Clean area with detergent.

WASTE DISPOSAL METHOD: Dispose of in accordance with local, state, federal and provincial regulations.

SECTION VII - CONTROL MEASURES

RESPIRATORY PROTECTION: Not normally needed.

VENTILATION: Intermittent clean air exchanges recommended, but not required.

PROTECTIVE GLOVES: Not normally needed.

EYE PROTECTION: Not normally needed.

SECTION VIII - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store away from flame and fire, and excessive heat.

Section IX - DISCLAIMER AND/OR COMMENTS

We recommend that containers be either professionally reconditioned for re-use by certified firms or properly disposed of by certified firms to help reduce the possibility of an accident. Disposal of containers should be in accordance with applicable federal, state, provincial, local laws and regulations. "Empty" drums should not be given to individuals.

The conditions of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

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