

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Hartland Bio Form Oils

C – Concentrate	100% Product
H – Heavy	25% Product / 75% Water
M – Medium	20% Product / 80% Water
L – Light	15% Product / 85% Water

MANUFACTURER'S I.D.: Water Soluble Concrete Form Release Fluid
Bio-Based Fluid

CAS NUMBER: NA

SECTION I - MANUFACTURER'S IDENTIFICATION

SOURCE: Bob Johnson Lubricants.

ADDRESS: 914 Commercial Court, Onalaska, WI 54650

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

GENERAL MSDS ASSISTANCE: (800) 658-9051

DATE PREPARED: 07/27/2000

DATE REVISED: 09/13/2011

SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

Compound	CAS #	OSHA TWA	OSHA STEL	ACGIH STEL
Soybean Oil	8001-22-7	---	10 mg/m ³	---
Surfactant Mixture**	confidential	---	---	---

**The specific chemical identity is being withheld as a trade secret.

--- 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.

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

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE: Not applicable

VAPOR DENSITY: Exceeds 1.0

SPECIFIC GRAVITY (H₂O=1.0): 0.935 **VAPOR PRESSURE:** Not applicable

PERCENT VOLATILE BY VOLUME: 0%

SOLUBILITY IN WATER: Miscible

EVAPORATION RATE: Not applicable

APPEARANCE AND ODOR: Amber liquid - only a faint odor

WEIGHT PER GALLON: 7.76 lbs. at 60 F

SECTION IV - FIRE AND EXPLOSION DATA

FLAMMABILITY CLASSIFICATION: Combustible Liquid - Class IIIB

FLASH POINT: Greater than 550 F (288 C)

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 V - REACTIVITY DATA

INCOMPATIBILITY (MATERIALS TO AVOID): None

HAZARDOUS DECOMPOSITIONS OR BY-PRODUCTS: None

HAZARDOUS POLYMERIZATION: Will not occur

SECTION VI - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: As a liquid - none. As an oil mist 10 mg/m³ total particulate.

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Excessive inhalation of oil 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 VII - 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, and federal regulations.

HANDLING AND STORAGE: Can be stored in most common storage vessels including carbon steel, aluminum, fiberglass, and stainless steel.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION: Not normally needed.

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

PROTECTIVE GLOVES: Not normally needed.

EYE PROTECTION: Eye protection is always recommended when handling chemicals.

SECTION IX - SPECIAL PRECAUTIONS

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

SECTION X - 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 and local laws and regulations. "Empty" drums should not be given to individuals.

The information in this MSDS was obtained from sources we believe are reliable. However, the information is provided without any representation or-warranty, expressed or implied, regarding its accuracy or correctness.

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.