

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

MATERIAL SAFETY DATA SHEET

Date Revised: 06/07/2011

24 Hour Emergency Assistance: PERS 800-633-8253

SECTION 1: IDENTIFICATION / PHYSICAL & CHEMICAL DATA

Product Name: Hartland Bio-Based Lubricant & Penetrant

Percent Volatile by Volume: 0%

Product Class: Biodegradable Formulated Lubricating Oil

Evaporation Rate: Not Applicable

Manufacturer's I.D.: Penetrant / Lubricant

Boiling Range: Not Applicable

Synonyms and Trade Names: Not Applicable

Vapor Density: Exceeds 1.0

CAS Number: Not Applicable

Vapor Pressure at 20°C: Not Applicable

Solubility in Water: Insoluble

Specific Gravity (H₂O=1.0): 0.921

Appearance and Odor: Yellow oily liquid with faint vegetable oil odor

Weight per Gallon: 7.68 lbs. at 60 °F

HMIS Code (H F R P): Health – 0, Fire – 1, Reactivity – 0, Personal Protection – B

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS #	%	OSHA / TWA
Soybean Oil	8001-22-7	80-95	15 mg/m ³ **
Canola Oil	120962-03-0	80-95	15 mg/m ³ **
Additive Mixture*	Confidential	0 - 5	

* The specific chemical identity is being withheld by suppliers as trade secret

** OSHA TWA limit of 15 mg/m³ is for vegetable oil mist; however Hartland Bio-Based Penetrant is highly resistant to mist formation

--- 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 (SECTION 311/312) TITLE III SECTION 313 - NOT LISTED

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

SECTION 3: FIRE & EXPLOSION DATA

Flash Point: 590°F

Fire Point: 658°F

LEL: No Data

Flammability Classification: Combustible Liquid - Class IIIB

Extinguishing Media

Use carbon dioxide, dry chemical, or sand for small fires; aqueous foam for large fires.

Special Fire Fighting Procedures

Avoid use of water as it may spread fire by dispersing the oil. Water may be used to keep fire-exposed containers cool. Wear self-contained breathing apparatus and complete personal protective equipment when entering confined areas where potential for exposure to vapors or products of combustion exists.

Unusual Fire & Explosion Hazards

Closed containers may rupture (due to buildup of pressure) when exposed to extreme heat.

SECTION 4: REACTIVITY DATA

Stability: Stable

Conditions to Avoid: Fire, excessive heat

Hazardous Polymerization: Will not occur

Incompatibility (Materials to Avoid): Strong oxidizing agents

Hazardous Decompositions or By-Products: Fumes produced when heated to decomposition may include: carbon monoxide, carbon dioxide.

SECTION 5: HEALTH HAZARD DATA

Effects of Overexposure:

Eye Contact

No specific information available. Contains materials that may cause eye irritation.

Ingestion

No specific information available. Considered practically non-toxic.

Inhalation

Excessive inhalation of vegetable oil mist may irritate the respiratory system. Vegetable oil mist is classified as a nuisance particulate by ACGIH. Heating above 500°F (260°C) can generate vapors that could cause headaches, nausea, dizziness, and respiratory irritation if inhaled.

Skin Absorption

No specific information available. Considered practically non-toxic.

Skin Contact

No specific information available. Generally non-irritating, however it contains materials that may cause skin irritation to some individuals on prolonged or repeated exposure.

Effects of Chronic Overexposure

No information available.

Emergency & First Aid Procedures:

Eye Contact

Flush with plenty of water and seek medical attention if irritation develops and persists.

Ingestion

Non-toxic, however if appreciable quantities are swallowed, seek medical attention.

Inhalation

In case of over-exposure to fumes if product is heated above 500°F (260°C), remove person to fresh air. If breathing has stopped, administer artificial respiration and seek medical attention.

Skin Contact

Remove contaminated clothing and wash contact area with soap and water. Seek medical attention if irritation develops and persists.

SECTION 6: SPILL OR LEAK PROCEDURES

Steps to Be Taken In Case Material Is Released or Spilled

Depending on quantity of spill: (a) Small spill – add inert solid absorbent to spill, shovel into disposable container, flush area with water, and clean area with detergent. (b) Large spill – squeegee or pump spilled oil into holding container for disposal, then clean area as described for a small spill. Prevent washings from entering waterways.

Waste Disposal Method

Landfill, incinerate, or use biological treatment in accordance with federal, state, and local regulations.

SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE

Respiratory Protection

Not normally needed. Wear a properly fitted NIOSH/MSHA approved respirator whenever exposure to vapor from heating product is likely and where ventilation is inadequate.

Ventilation Local Exhaust

Intermittent clean air exchanges recommended when appropriate to control employee exposure.

Mechanical

Not recommended as the sole means of controlling employee exposure.

Protective Gloves

For operations where contact can occur, individuals known to have skin sensitivity should wear impervious gloves.

Eye Protection

Eye protection is always recommended when handling chemicals.

SECTION 8: SPECIAL PRECAUTIONS

Store the product in a dry place away from flame, fire and excessive heat. Keep container closed. Avoid breathing mist and fumes when heating during use.

SECTION 9: STATE R-T-K COMPOSITION INFORMATION (and Canada)

Component	CAS #	DSL	NDSL
Soybean Oil	8001-22-7	---	---
Canola Oil	120962-03-0	---	---
Additive Mixture*	Confidential	---	---

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

--- Not determined

SECTION 10: SARA TITLE III SECTION 313 INFORMATION

This product does not contain any SARA, Title III, Section 313 chemicals.

SECTION 11: RCRA INFORMATION

Regulated Waste: No

SECTION 12: CERCLA INFORMATION

This product contains no materials with reportable quantities.

SECTION 13: CALIFORNIA PROPOSITION 65 INFORMATION

To the best of our knowledge, this product does not contain any California Proposition 65 designated chemicals.

SECTION 14: TRANSPORTATION INFORMATION

D.O.T. Shipping Name: Not Regulated

D.O.T. Hazard Class: Not Regulated

D.O.T. UN/NA Number: None

SECTION 15: OTHER INFORMATION

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of this material safety data sheet. However no liability whatsoever is assumed for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.