

# SSI MATERIAL SAFETY DATA SHEET

## 1 CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Trade Name: Hero Biobased Heavy-Duty Lubricating Penetrant

Product Number: CG950 Revision Date: 07/01/2009 Supercedes: 11/14/2007

Manufacturer: Solvent Systems International (SSI)  
70 King Street  
Elk Grove Village, IL 60007

Emergency Telephone Numbers (847) 437 - 1100

## 2 COMPOSITION & INFORMATION ON INGREDIENTS

Ingredient Name	Percent
Methyl Ester	> 99%

## 3 HAZARDS IDENTIFICATION

### Emergency Overview

Clear yellow-colored liquid at 25°C

May cause irritation to the eyes, skin and respiratory system

### Health Effects: Eyes

This product may cause slight eye irritation.

### Health Effects: Skin

May cause slight skin irritation.

### Health Effects: Inhalation

High vapor or aerosol mist concentrations may be irritating to the nose, throat and upper respiratory tract.

### Health Effects: Ingestion

Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea and diarrhea.

## 4 FIRST AID MEASURES

### Eyes

Flush with large amounts of water for at least 15 minutes. If irritation persists, seek medical attention.

### Skin

Wash exposed areas. If irritation persists, seek medical attention.

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### **Inhalation**

Immediately remove individual to fresh air. Seek medical attention.

### **Ingestion**

If ingestion of large amount does occur, seek medical attention. Do not induce vomiting.

## **5 FIRE FIGHTING MEASURES**

Rags soaked with any solvent or oily material present a fire hazard and should always be stored in a "UL" listed or "Factory Mutual" approved covered container. Improperly stored rags can create conditions that lead to oxidation that in turn, may lead to spontaneous combustion.

**Flash Point:** Greater than 266°F (PMCC)

### **Extinguishing Media:**

Dry chemical, foam, carbon dioxide, and water fog.

### **Fire Fighting Equipment / Instructions**

Self-contained breathing apparatus is recommended for firefighters. Apply water fog or mist gently; heavy application of hot oil could cause foaming. Avoid contact with hot oil.

## **6 ACCIDENTAL RELEASE MEASURES**

### **SPILL AND LEAK PROCEDURES**

#### **Emergency Action:**

Contain or isolate spill or leak area immediately. Keep unauthorized personnel away. Ventilate closed spaces before entering.

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch or walk through spilled material. Wear appropriate personal protective equipment during cleanup.

**Small Spills:** Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

**Large Spills:** Dike ahead of liquid spill for later disposal. Prevent entry into waterways, sewers, basements or confined areas.

Surfaces may become slippery after spillage.

## **7 HANDLING & STORAGE**

### **Handling Procedures:**

Wash thoroughly after handling. As with all chemicals, good industrial hygiene practices should be followed when handling this material.

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### **Storage Procedures:**

Store in a dry, well-ventilated area. Do not handle or store near an open flame, heat or other sources of ignition. Store away from strong oxidizers.

## **8 EXPOSURE CONTROLS & PERSONAL PROTECTION**

### **Engineering Controls:**

Use general ventilation. Local exhaust is suggested for use, where possible, in enclosed or confined spaces.

### **Personal Protective Equipment: Eyes/Face**

Wear safety glasses or chemical goggles and a face shield if splashing is possible.

### **Personal Protective Equipment: Skin**

Wear suitable protective clothing. Use impervious gloves.

### **Personal Protective Equipment: Respiratory**

If vapors are present or irritation is experienced, NIOSH approved respiratory protection for organic vapors should be worn.

## **9 PHYSICAL & CHEMICAL PROPERTIES**

<u>Form</u>	Fluid
<u>Appearance</u>	Yellow Liquid
<u>Specific Gravity (water = 1)</u>	0.882 g/ml (7.35lb/gal) @ 25°C
<u>Boiling Point</u>	> 625°F
<u>Solubility in Water (by weight %)</u>	Not Soluble
<u>Odor</u>	Slightly Sweet
<u>Color</u>	Yellow to amber
<u>Vapor Pressure (mm Hg at 20°C)</u>	< 0.1 mm Hg
<u>Vapor Density (air = 1)</u>	Estimated heavier than air.
<u>VOC</u>	1.7 grams / liter
<u>Viscosity cSt at 40°C</u>	~4.0

## **10 STABILITY & REACTIVITY**

### **Chemical Stability:**

Stable under normal conditions.

### **Conditions to Avoid:**

Avoid strong oxidizing agents.

### **Incompatibility:**

This product may react with strong oxidizing agents and alkalies.

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**Hazardous Decomposition:**

Methanol may be formed if material is hydrolyzed or saponified.

**Hazardous Polymerization:**

Will not occur.

### 11 TOXICOLOGICAL INFORMATION

**Carcinogenicity:**

Not listed as carcinogenic according to IARC, NTP or OSHA.

**Mutagenicity:**

This product class is non-mutagenic.

**LD50 Values:**

Oral LD50 (rat) = >5000 - 15,000 mg/kg

Dermal LD50 (rabbit) = >2,000 < or equal to 20,000 mg/kg

### 12 ECOLOGICAL INFORMATION

**Ecotoxicity:**

No data available.

**Environmental impact:**

This product is biodegradable.

### 13 DISPOSAL CONSIDERATIONS

**Disposal Instructions:**

Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State and Local regulations. Regulations may vary in different locations. Characterization and compliance with applicable laws are the responsibility solely of the generator.

### 14 TRANSPORT INFORMATION

**DOT Proper Shipping Name:**

Refer to bill of lading or container label for DOT or other transportation hazard classification, if any.

### 15 REGULATORY INFORMATION

**Ingredient Name**  
Methyl Ester

**CAS Number**  
67784-80-9

**Percent**  
> 99%

# SSI MATERIAL SAFETY DATA SHEET

## Inventories:

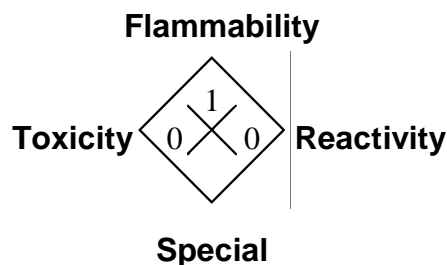
All components of this product are listed on the following inventories: U.S.A.(TSCA), Canada(DSL), Europe(EINECS/ELINCS/Polymer/NLP), Korea(ECL), Australia(AICS), China (EICSC 2003).

There is no calculable reportable quantity (RQ) for this product.

## 16 OTHER INFORMATION

### NFPA HAZARD RATING

- 4 - Extreme
- 3 - High
- 2 - Moderate
- 1 - Slight
- 0 - Insignificant



### HMIS HAZARD INDEX (Hazardous Materials Identification System)

- |              |                     |
|--------------|---------------------|
| 4 - Severe   | Health              |
| 3 - Serious  | Flammability        |
| 2 - Moderate | Reactivity          |
| 1 - Slight   | Personal Protection |
| 0 - Minimal  |                     |

### HMIS RATINGS

0 \_\_\_\_\_  
1 \_\_\_\_\_  
0 \_\_\_\_\_  
\_\_\_\_\_

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