

MATERIAL SAFETY DATA SHEET

1. Identification

Trade Name: Hero Biobased Ultra Solve
Product Number: HPW162
Revision Date: 07/01/20012 Supercedes: 11/14/2011
Manufacturer: Solvent Systems International (SSI)
70 King Street
Elk Grove Village, IL
Emergency Telephone: (847) 437 - 1100

2. Hazard(s) 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 system.

Health Effects – Ingestion: Ingestion of large amounts may produce gastrointestinal disturbances including irritation.

3. Composition/Ingredient Information

Ingredient Name	Percent
Methyl Ester	> 90%
Ethoxylated Alcohols	< 10

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.

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

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 and Storage

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

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 Control/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

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

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	CAS Number	Percent
Methyl Ester	67784-80-9	> 99%

Inventories:

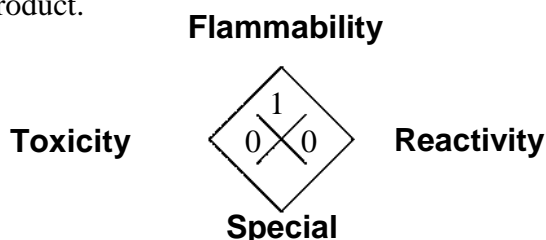
All components of this product are listed on the following inventories: U.S.A.(TSCA), Canada(DSL), Europe(EINECS/ELINCS/Polymer/NLP), Korea(ECL), Australia(AICS), China (EICSC 2003).

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)

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

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