

# MATERIAL SAFETY DATA SHEET

Date Modified: 05/31/2005

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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **SoyFluid™ Hydraulic Universal Tractor**

Product description: Biodegradable / Non-toxic, Hydraulic Fluid.

### MANUFACTURER

Environmental Lubricants Manufacturing (ELM), Inc.,  
1307 Badger Avenue  
Plainfield, IA 50666

### EMERGENCY TELEPHONE NUMBERS:

Chemtrec: 1-800-424-9300  
General MSDS and Product Safety Information 319-276-4801

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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Soybean Oil Base Stock	CAS Registry
Additives	8001-22-7
	Mixture

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## 3. HAZARD IDENTIFICATION Emergency Overview:

Clear, Amber, Liquid. (May be dyed or odor masked.)

Health studies have shown that petroleum hydrocarbons pose potential human health risks which may vary from person to person. Exposure to liquids, mists, vapors and fumes should be minimized.

### Potential Health Effects:

#### INHALATION:

Vapors are minimal under normal conditions but should be avoided, concentrations may reach levels that could cause slight irritation.

#### EYE CONTACT:

May cause slight temporary eye irritation. Corneal injury is unlikely. Vapors or mists may irritate eyes.

#### SKIN CONTACT:

May cause slight irritation. Discontinue use if irritation persists.

#### INGESTION:

Ingestion of oil may irritate the digestive tract and could cause diarrhea.

#### OTHER:

The TLV has not been determined for this material. The TLV for oil mists is 5 mg/cubic meter.

### Hazardous Material Identification System (HMIS):

Health-1, Flammability-1, Reactivity-O (Based on components)

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## 4. FIRST AID MEASURES

### INHALATION:

Remove the victim from the area to fresh air. Call a physician. Give oxygen if victim is breathing hard.

### EYE CONTACT:

Flush eyes with large amounts of water immediately for 15 minutes or until irritation subsides. If irritation persists, get medical attention.

### SKIN CONTACT:

Wash affected areas thoroughly with soap and water. Remove contaminated clothing and wash them before wearing again. Call a physician if irritation persists.

### INGESTION:

Call a doctor immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

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## 5. FIRE FIGHTING MEASURES

Flash point: 400°F Minimum (PMCC)

Flammable limits: Not Determined

Auto Ignition Temperature: Not Available

### GENERAL HAZARD:

May release vapors that form flammable mixtures when temperatures are at or above the flash point. Toxic gases will form upon combustion.

### FIRE FIGHTING INSTRUCTIONS:

Either allow fire to burn out under controlled conditions or extinguish with foam, CO<sub>2</sub>, or dry chemical. Try to cover liquid spills with foam. Shut off fuel to fire if possible to do so without hazard.

### FIRE FIGHTING EQUIPMENT:

NIOSH approved self-contained breathing apparatus and eye protection are required for fire fighting personnel on all indoor fires and any significant outdoor fires.

### HAZARDOUS COMBUSTION PRODUCTS:

Smoke, fumes, carbon monoxide, carbon dioxide and water.

### NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

Health-1, Flammability-1, Reactivity-O (Based on components)

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## 6. ACCIDENTAL RELEASE MEASURES

Notify the appropriate authorities immediately. Take all actions necessary to prevent adverse effects of the spill. Eliminate ignition sources. Shut off leak if safe to do so. Dike spilled liquid with sand/earth and dispose of properly. DO NOT use sawdust or other combustible materials. Prevent product from entering sewers or waterways.

National Response Center 1-800-424-8802

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## 7. HANDLING AND STORAGE

STORAGE TEMPERATURE: Ambient

GENERAL STORAGE PRESSURE: Atmospheric

Keep container closed. Loosen closure cautiously before opening. Store in a well ventilated area away from incompatible materials. (See Section 10) Keep away from heat, sparks and flames. Empty container may still retain hazardous properties.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### ENGINEERING CONTROLS:

General ventilation should be sufficient for most operations. Use mechanical ventilation to control vapor concentrations in confined spaces.

### PERSONAL PROTECTION:

#### Respirator:

Use an air supplied respirator when concentrations are over the exposure limits.

#### Protective Clothing:

Wear Nitrile gloves, Safety glasses and NIOSH/MSHA approved dust/mist mask as appropriate. A long sleeve shirt is recommended.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling point:	>500°F
Vapor pressure:	Not determined
Vapor density:	Not determined
Solubility in water:	Insoluble
Specific gravity:	0.904
pH:	Not available
Odor:	Mild
Appearance:	Clear Amber
Physical state:	Liquid

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## 10. STABILITY AND REACTIVITY

### GENERAL:

This product is stable and will not polymerize.

### INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Strong oxidizing agents.

### HAZARDOUS DECOMPOSITION:

None.

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## 11. TOXICOLOGICAL INFORMATION

No component of this product present at levels greater than 0.10% is identified as a carcinogen by NTP, IARC or OSHA.

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## 12. ECOLOGICAL INFORMATION

No data is available.

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## 13. DISPOSAL CONSIDERATIONS

Ensure disposal is in compliance with Federal-State-Local laws. Do not landfill or dispose of in sink drains or sewers.

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## 14. TRANSPORTATION INFORMATION

DOT (Department of Transportation):

Proper shipping name	Not regulated
Hazard class	Not regulated
Identification number	Not regulated
Labeling	Not regulated

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## 15. REGULATORY INFORMATION

TSCA (Toxic Substance Control Act):

All components of this product are listed on the U.S. TSCA inventory may be subject to export notification under TSCA 12b. CERCLA (Comprehensive Response Compensation and Liability Act): This product is not subject to any special reporting under the requirements of CERCLA.

We recommend you contact local authorities to determine local reporting requirements. SARA TITLE III (Superfund Amendments and Reauthorization Act):

311/312 Hazard Categories:

This material is defined as hazardous by OSHA under 29 CFR part 1910.1200(d).

313 Reportable Ingredients:

Contains 0.9 weight percent of Zinc compounds

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## 16. OTHER INFORMATION

To the best knowledge of Environmental Lubricants Manufacturing, Inc. (ELM), 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.