



SAFETY DATA SHEET

Revision Date 28-May-2015

Revision Number 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

GHS product identifier : THRIVE FR HFDU 46
Code : 3846
Product Type : Biodegradable Fire Resistant Hydraulic Oil

Details of the supplier of the safety data sheet

Manufacturer Address : U.S. Lubricants, A Division of U.S. Venture, Inc.
425 Better Way
Appleton, WI 54915

Emergency telephone number

Company Phone Number 800-490-4900
24 Hour Emergency Phone Number 800-688-4005 DTCG84-01-A-900043

2. HAZARDS IDENTIFICATION

OSHA Status: This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard.

Classification: Not Applicable

Signal Word: None

Health Hazards: Not applicable.

Precautionary Statements: Oil soaked materials (rags, steel wool, clothing, etc.) should be placed in a sealed metal container to prevent spontaneous combustion. The product contains no substances at their given concentration that are hazardous to one's health.

Prevention: Not applicable.

Response: Not applicable.

Storage: Not applicable.

Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Potential Health Effects

Physical hazards not otherwise classified (PHNOC)	None known.
Health hazards not otherwise classified (HHNOC)	None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	%
Canola	120962-03-0	70-90
Performance Package	MIXTURE	3-10
Other Components	PROPRIETARY	<5

The exact concentration of composition has been withheld as a trade secret. If CAS number is indicated as "PROPRIETARY" or "MIXTURE", information has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

- Inhalation:** Remove victim to fresh air and keep at rest position comfortable for breathing. Get medical attention if symptoms occur.
- Eye:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Get medical attention if irritation occurs.
- Skin:** Flush contaminated skin with plenty of water. Get medical attention if serious symptoms occur.
- Ingestion:** No special measures required. Health injuries are not known or expected under normal use.

Indication of immediate medical attention and special treatment needed, if necessary.

Notes to physician: Treat symptomatically

Specific treatments: None

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

5. FIRE-FIGHTING MEASURES

Specific hazards that may develop: Risk of ignition. Rags and other materials containing this product may heat and spontaneously ignite if exposed to air. Store wiping rags and other materials in metal cans with tight fitting lids. Cool closed containers exposed to fire with water spray.

EXTINGUISHING MEDIA: Dry media, dry chemical powder, carbon dioxide (CO2), foam, sand, fog. Use extinguishing measures that are appropriate for local circumstances and the surrounding environment.

UNSUITABLE EXTINGUISHING MEDIA: Do not use a solid water stream as it may scatter and spread fire.

PROTECTION OF FIRE FIGHTERS: Empty containers contain residue. Do not weld, cut, pressurize, braze, solder, drill, grind or expose to heat, spark or flame.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Fire-fighters should wear standard protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Protective Measures: Avoid high pressure washing or generation of aerosols. Material can create slippery conditions. Put on

appropriate personal protective equipment. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

Spill Management: In the event of a spill, evacuate non-essential personnel, remove any sources of ignition, ventilate spill area and prevent entry into sewers and waterways. Pick up free material for recycle or disposal and absorb residual liquid with inert material. Use a dry spill kit or sand to soak up absorbent material and collect in appropriate containers before disposing according to all proper regulations. Clean contaminated surfaces thoroughly.

Environmental Precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (soil, waterways, soil or air).

7. HANDLING AND STORAGE

General Handling Information: Ensure adequate ventilation to prevent inhalation of vapor/dust. Do not use pressure to empty drums. Keep away from open flames, hot surfaces and sources of ignition. Put on appropriate protective equipment. Avoid contact with the product. Do not reuse container. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. See Section 8 for additional hygiene measures.

Conditions for Safe Storage: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool, well-ventilated area away from incompatible materials (see section 10) and food and drink. Do not store in unlabeled container. Use appropriate equipment to avoid environmental contamination.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits:

Chemical Name	ACGIH TLV	OSHA PEL	Mexico	NIOSH
Vegetable Oil Mist	TVL: 10mg/m(3)	TWA: 5 mg/m(3) mist, Respirable fraction TWA: 15 mg/m(3) mist, total	TWA: 10 mg/m(3) except irritant oils	TWA: 10 mg/m(3) total mist TWA: 5 mg/m(3) respirable mist

Appropriate engineering controls: Ensure adequate ventilation, especially in confined areas. Apply technical measures to comply with occupational exposure limits.

Environmental exposure controls: N/A

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection: Wear safety glasses or goggles that comply with an approved standard when a risk assessment indicates this is necessary to avoid exposure via mist or splashing.

Skin Protection: Wear impervious clothing. Wear protective gloves and choose body protection according to the amount and concentration of the dangerous substance at the work place. Appropriate footwear and other protection should be selected based on the tasks being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory Protection: In case of mist, spray or aerosol exposure, wear suitable respiratory protection.

Hygiene Measures: When using do not eat, drink or smoke. Wash hands before breaks and at the end of the workday or before eating, drinking or smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Physical State: Liquid
Color: Amber
Odor: Mild odor
Odor Threshold: N/A
pH: N/A
Fire Point: > 650°F (>340°C)
Melting point: N/A
Boiling Point (Boiling point/boiling range): N/A
Evaporation Rate: N/A

Burning Rate: N/A
Vapor Pressure: N/A
Relative Vapor Density (Air = 1): N/A
Relative Density: N/A
Density: N/A
Bulk Density: N/A
Solubility (Water): Negligible
Solubility (Other solvents): Soluble in many organic solvents.
Octanol/Water Partition Coefficient: N/A
Decomposition temperature: N/A
Viscosity @ 40C , cSt: 46

FLAMMABLE PROPERTIES:

Flammability (solid, gas): N/A
Flashpoint: >600°F (315°C)
Autoignition: N/A
Flammability (Explosive) Limits (% by volume in air): N/A

10. STABILITY AND REACTIVITY

Reactivity: Stable and non-reactive under conditions of normal use.

Chemical Stability: This material is considered stable under conditions of normal use.

Possibly of Hazardous Reactions: No hazards to be specially mentioned under normal conditions of storage and use.

Conditions to avoid: Avoid contact with incompatible materials and keep product away from open flames, hot surfaces, and sources of ignition.

Incompatibility With Other Materials: No materials to be specifically mentioned.

Hazardous Decomposition Products: Thermal decomposition leads to formation of acrolein, Carbon Monoxide (CO), Carbon Dioxide (CO₂), smoke and fumes.

11. TOXICOLOGICAL INFORMATION

Effects of Overexposure - Inhalation: No known significant health hazards under normal use. When in the form of an airborne mist, refer to section 8 for exposure limits pertaining to "vegetable oil mist". Excessive inhalation of mist may result in respiratory irritation.

Effects of Overexposure - Skin Contact: Prolonged or excessive contact with skin may result in mild irritation, however, significant health injuries are not expected under normal use.

Effects of Overexposure - Eye Contact: No known significant health hazards.

Effects of Overexposure - Ingestion: No known significant health hazards under normal use. Overexposure may cause gastrointestinal disturbance.

Effects of Overexposure - Chronic Hazards: No known significant health hazards.

Primary Route(s) of Entry: Eye Contact, Ingestion, Inhalation, Skin Contact.

- Not considered a potential carcinogen by NTP, IARC, or OSHA.

Acute Toxicity Values

The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS NUMBER	Name According to EEC	Oral LD50, mg/kg	Dermal LD50, mg/kg	Vapor LC50, mg/L
-	-	-	-	-

12. ECOLOGICAL INFORMATION

OECD 301B Biodegradability

>70%

POTENTIAL TO BIOACCUMULATE

No-bio accumulative per US EPA definition

OECD 201

Alga, EC50, 72hr, mg/L >17,000

OECD 202

Daphnia, EC50, 48hr, mg/L >6,400

OECD 203

Fish, LC50, 96hr, mg/L >12,000

Octanol/Water Partition Coefficient: No data available

13. DISPOSAL CONSIDERATIONS

The generation of waste should be avoided whenever possible. Oil soaked materials may spontaneously combust and should be properly managed to avoid ignition and heat sources or oxygen rich environments. Disposal of this product, solutions, and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with all authorities in the jurisdiction. Waste packaging should be recycled. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Empty containers may contain residue and should not be reused. They should be decontaminated and taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

DOT Proper Shipping Name: Not regulated

Packing Group: Not regulated

DOT Hazard Class: Not regulated

Hazard SubClass: Not regulated

DOT UN/NA Number: N/A

Resp. Guide Page: N/A

15. REGULATORY INFORMATION

U.S. Federal Regulations:

United States inventory (TSCA 8b): All components are listed or exemplified.

SARA SECTION 313: N/A

TOXIC SUBSTANCES CONTROL ACT: N/A

U.S. State Regulations:

NEW JERSEY RIGHT-TO-KNOW: N/A

PENNSYLVANIA RIGHT-TO-KNOW: N/A

CALIFORNIA PROPOSITION 65 CARCINOGENS: N/A

CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS: N/A

International Regulations:

CANADIAN WHMIS: N/A

WHMIS Class: N/A

16. OTHER INFORMATION

History

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Prepared by : US Lubricants

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.