

SECTION 1: IDENTIFICATION

Company Information:

BioBlend Renewable Resources, LLC
2250 Arthur Ave.
Elk Grove Village, IL 60007
(630) 227-1800
www.bioblend.com

Emergency Contact Information:

(630) 227-1800
8 AM - 4 PM, Monday through
Friday

Product Name	BioFlo UTF
Product Description	Biodegradable Universal Tractor Fluid
Product Use	Product is intended for use as an industrial lubricant.

SECTION 2: HAZARD(S) IDENTIFICATION

Hazard Statement

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard, which has been updated to align with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Causes eye irritation. Causes skin irritation. May be fatal if swallowed and enters airways.



DANGER

Precautionary Statements

PREVENTION: Wear protective gloves and wash thoroughly after handling. Do not breath gas/mist/vapors/spray.

IF ON SKIN: Take off contaminated clothing and wash before re-use. Wash with plenty of soap and water. If skin irritation occurs, seek medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation

persists, seek medical advice/attention. Wash hands after handling.

DISPOSAL & STORAGE: Store and dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazard Classification ASPIRATION HAZARD - Category 1
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
SKIN CORROSION/SKIN IRRITATION - Category 2B

Primary hazards statement - Causes eye and skin irritation; aspiration hazard

Hazards not otherwise classified None known
Toxicity Statement <1% of the mixture consists of ingredients with unknown toxicity

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No.	Weight %
Canola	120962-03-0	55-75%
Petroleum Distillates	PROPRIETARY	20-30%
Performance Package	MIXTURE	3-10%
Viscosity Modifier	MIXTURE	3-10%

The exact percentage (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.

SECTION 4: FIRST AID MEASURES

First Aid - Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

First Aid - Eye Contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

First Aid - Skin Contact Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately.
Recommendations for immediate medical care/special treatment	Physicians should treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

Suitable extinguishing media	In case of fire use foam, Carbon dioxide, water spray or fog and/or extinguishing agents suitable for surrounding fire. Do not use water jet as an extinguisher, as this will spread the fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards that may develop when chemical burns	No specific fire or explosion hazards noted.
Special firefighting equipment/precautions	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Keep unnecessary personnel away. Immediately contact emergency personnel. Use suitable personal protective equipment and clothing during clean up. Ensure adequate ventilation.
Emergency procedures	In the event of a spill, evacuate nonessential 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 appropriate materials. Immediately contact emergency personnel. Local authorities should be advised if spillages cannot be contained.
Methods and material for containment	Prevent further leakage or spillage if safe to do so. Remove any ignition sources and soak up or dike the spilled area with the appropriate materials. Use only non-sparking tools and ensure adequate ventilation.
Cleanup procedures	Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Prevent entry into waterways,

sewer, basements or confined areas. If the material is spilled into navigable waters and creates a visible sheen, notify the proper authorities. Do not return spills to the original container for reuse. Clean surface thoroughly to remove any residual contamination.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Storage recommendations	Store in original container in a dry, cool and well-ventilated area away from direct sunlight. Do not store near an open flame source, sources of heat, or sources of ignition. Store away from incompatible materials, food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
Petroleum Distillate	TWA: 5 mg/m ³ , 8 hours, inhalable fraction	TWA: 5 mg/m ³ , 8 hours,	STEL: 10 mg/m ³ , 15 minutes, mist TWA: 5 mg/m ³ , 10 hours, mist

Engineering controls Provide exhaust ventilation or other engineering controls to keep airborne concentrations of vapors below their respective threshold limit values.

Recommended Personal Protective Equipment:

Eye/Face Protection	Safety goggles are considered minimum protection. Goggles with a face shield may be necessary depending on quantity of material and conditions of use.
Respiratory Protection	Under normal use, respirator is not normally required. When workers are facing concentrations above the exposure limits they must use appropriate certified respirators.
Skin/Body Protection	Chemical-resistant, impervious gloves should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Amber liquid
Odor	Mild petroleum oil
Odor Threshold	Not available
pH	Not applicable

Melting Point/ Freezing Point	Not available
Initial Boiling Point/ Range	Not available
Flash Point	120°C (248°F) Pensky-Martens Closed Cup (lowest flash on individual ingredient)
Evaporation rate	Not available
Flammability	Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge.
Flammability, upper limits	Not available
Flammability, lower limits	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	0.96 g/cm³
Solubility(ies)	Not available
Solubility in water	Negligible
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity @ 40C, cSt	46

SECTION 10: STABILITY AND REACTIVITY

Reactivity	This product is stable and non-reactive under normal conditions of use, storage, handling and transportation.
Stability	This product is chemically stable under normal conditions of use, storage, handling and transportation.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	High temperatures, sparks, open flames, or other sources of ignition
Incompatible materials	Strong oxidizing and reducing agents
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

Potential health effects:

Inhalation	Prolonged inhalation may be harmful
Eye contact	May causes serious eye irritation
Skin contact	May cause an allergic skin reaction
Ingestion	May be fatal if swallowed

Symptoms or effects, including acute and delayed:

Inhalation	Prolonged inhalation may be harmful; Risk of chemical pneumonia after aspiration.
Eye Contact	Adverse effects may include pain, irritation, watering, and/or redness
Skin Contact	Adverse effects may include irritation and/or redness
Ingestion	No specific information

Toxicological effects:

Sensitization	No information available
Mutagenic effects	No information available
Reproductive Toxicity	No information available
Developmental Toxicity	No information available
Teratogenic	No information available
STOT - single exposure	No information available
STOT - repeated exposure	No information available
Aspiration Hazard	White mineral oil - Aspiration Hazard - Category 1

NTP Report on Carcinogens

This product is not considered to be a carcinogen by NTP.

IARC listing of potential carcinogens

This product is not considered to be a carcinogen by IARC.

OSHA listing of potential carcinogens

This product is not considered to be a carcinogen by OSHA.

Toxicity Data:

Product/Ingredient name:	Result	Species	Dose	Exposure
Zinc dialkyl dithiophosphate	LD50 Dermal	Rat	>2000 mg/kg	
	LD50 Oral	Rat	>2000 mg/kg	
Petroleum distillate	LD50 Dermal	Rabbit	>2000 mg/kg	
	LD50 Oral	Rat	>5000 mg/kg	
	LC50 Inhalation	Rat	5.7 mg/l	4 hours

SECTION 12: ECOLOGICAL INFORMATION

Biodegradability, OECD 301B >70%

Bioaccumulation Not available

OECD 201 Alga, EC50, 72hr, mg/L >100

OECD 202 Daphnia, EC50, 48hr, mg/L Not available

OECD 203
Fish, LC50, 96hr, mg/L

>100

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal considerations	Dispose of contents/container in accordance with all local, regional, state, national and international regulations.
Waste from residues/unused products	Dispose of in accordance with all local, regional, state, national and international regulations.
Contaminated packaging	Oil soaked materials may spontaneously combust and should be properly managed to avoid ignition and heat sources or oxygen rich environments. Collect and store soaked materials in closed metal containers to help prevent combustion. Empty containers may contain residue and should not be reused. They should be decontaminated and taken for local recycling, recovery or waste disposal.

SECTION 14: TRANSPORT INFORMATION

US DOT	Not regulated by the US DOT as a hazardous material
TDG (Canada)	Not regulated by the Canadian TDG as a hazardous material
ADR	Not regulated
IMDG	Not regulated
IATA	Not regulated

SECTION 15: REGULATORY INFORMATION

US TSCA Inventory	Listed or exempted
California Prop. 65	Not listed

SARA Extremely Hazardous Substances

Not listed as such

SARA Section 313

Zinc dialkyl dithiophosphate

CERCLA Hazardous Substances

Not listed

WHMIS Classification

Class D-2B - Material causing other toxic effects

SECTION 16: OTHER INFORMATION

Revision date

10/26/2015



This product's safety information is provided to assist our customers in assessing compliance with safety, health and environmental regulations. The information contained within this document is based on data available to us and is believed to be accurate at the time of last revision. However, no warranty of use or any other warranty is expressed or implied regarding the accuracy of this data, the results to be obtained from the use thereof, or the hazards connected with the use of this product. Whereas the use of this product is within the exclusive control of the user, it is the user's obligation to determine the conditions for safe use of this product. Such conditions must comply with with all regulations concerning this product. BioBlend Renewable Resources, LLC assumes no liability for any injury or damage, direct or consequential, resulting from the use of this product unless such injury or damage is attributable to gross negligence on the part of BioBlend Renewable Resources, LLC.