



# SAFETY DATA SHEET

## SECTION 1: IDENTIFICATION

### *Company Information:*

BioBlend Renewable Resources, LLC  
1500 Jarvis 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 TO 68
Product Description	High-Performance Vegetable-Based Hydraulic Fluid
Product Use	Product is intended for use as an industrial lubricant.

## SECTION 2: HAZARD(S) IDENTIFICATION

Hazard Statement	This chemical is not 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).
Precautionary Statements	Oil soaked materials (rags, steel wool, clothing, etc.) should be placed in a sealed metal container to prevent spontaneous combustion (fire). The product contains no substances at their given concentration, that are considered hazardous to one's health.
Hazard Classification	Not Applicable
Hazards not otherwise classified	None known
Unknown Toxicity Statement	<1% of the mixture consists of ingredients with unknown toxicity

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No.	Weight %
Canola, oleic acid - high	228404-57-7	85-95%
Performance Package	MIXTURE	2-10%
Other Components	PROPRIETARY	<5%

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	Move to fresh air and seek medical advice/attention if irritation develops.
First Aid - Eye Contact	Thoroughly rinse eyes and under eyelids with plenty of water. Seek medical advice/attention if irritation develops.
First Aid - Skin Contact	Wash effected area immediately with warm water and soap. Seek medical advice/attention if irritation develops.
First Aid - Ingestion	No special measures required. Health injuries are not known or expected under normal use.
Recommendations for immediate medical care/special treatment	Physicians should treat symptomatically.

### SECTION 5: FIREFIGHTING MEASURES

Suitable extinguishing media	Dry media, dry chemical powder, carbon dioxide (CO <sub>2</sub> ), foam, sand, fog. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	For safety reasons, do not use a solid water stream as it may scatter and spread fire.
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.

**Special firefighting equipment/precautions**

**Firefighters should use all standard protective equipment to fight fire. Empty containers contain residue and/or vapors; do not weld, cut, pressurize, braze, solder, drill, grind or expose to heat, spark or flame.**

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal precautions**

**Avoid high pressure washing or generation of aerosols. Material can create slippery conditions.**

**Emergency procedures**

**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.**

**Methods and material for containment**

**Prevent further leakage or spillage if safe to do so. Soak up with inert absorbent material and remove any ignition sources. Use only non-sparking tools and ensure adequate ventilation. Notify the proper authorities.**

**Cleanup procedures**

**Dam up, then soak up with absorbent material. Use a dry spill kit or sand, and collect in appropriate containers before disposing according to all proper regulations. Clean contaminated surfaces thoroughly.**

## **SECTION 7: HANDLING AND STORAGE**

**Precautions for safe handling**

**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. Handle in accordance with good industrial hygiene and safety practices.**

**Storage recommendations**

**Store in a cool, sheltered location. To maintain product quality, do not store in heat or direct sunlight.**

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Limits**

**Contains no exposure limits**

**Engineering controls**

**Ensure adequate ventilation, especially in confined areas. Apply technical measures to comply with the occupational exposure limits.**

***Recommended Personal Protective Equipment:***

**Eye/Face Protection**

**If exposure to airborne mist or splashing is possible, safety goggles or safety glasses with side shields are recommended.**

**Respiratory Protection**

**In case of mist, spray or aerosol exposure, wear suitable personal respiratory protection.**

**Skin/Body Protection**      **Oil resistant gloves are recommended. Appropriate body protection should be selected based on activity and possible exposure. Specific local conditions under which the product is used should also be taken into consideration.**

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	<b>Amber liquid</b>
<b>Odor</b>	<b>Mild odor</b>
<b>Odor Threshold</b>	<b>Not applicable</b>
<b>pH</b>	<b>Not applicable</b>
<b>Melting Point/ Freezing Point</b>	<b>Not available</b>
<b>Initial Boiling Point/ Range</b>	<b>Not available</b>
<b>Flash Point</b>	<b>&gt;600°F</b>
<b>Fire Point</b>	<b>&gt;650°F</b>
<b>Evaporation rate</b>	<b>Not available</b>
<b>Flammability</b>	<b>Not applicable</b>
<b>Flammability, upper limits</b>	<b>Not applicable</b>
<b>Flammability, lower limits</b>	<b>Not applicable</b>
<b>Vapor pressure</b>	<b>Not applicable</b>
<b>Vapor density</b>	<b>Not applicable</b>
<b>Relative density</b>	<b>.91</b>
<b>Solubility(ies)</b>	<b>Soluble in many organic solvents</b>
<b>Solubility in water</b>	<b>Negligible</b>
<b>Partition coefficient: n-octanol/water</b>	<b>Not available</b>

Auto-ignition temperature	Not auto-flammable
Decomposition temperature	Not available
Viscosity @ 40C, cSt	68

## 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	Hazardous polymerization does not occur.
Conditions to avoid	Avoid contact with incompatible materials and keep product away from open flames, hot surfaces, and sources of ignition.
Incompatible materials	No materials to be especially mentioned
Hazardous decomposition products	Thermal decomposition leads to formation of acrolein, Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), smoke, and fumes.

## SECTION 11: TOXICOLOGICAL INFORMATION

### *Potential health effects:*

Inhalation	Health injuries are not known or expected under normal use. When in the form of an airborne mist, refer to section 8 for exposure limits. Excessive inhalation of mist may result in respiratory irritation.
Eye contact	Not expected to pose health issues for the eye.
Skin contact	Prolonged or excessive contact with skin may result in mild irritation, however, significant health injuries are not expected under normal use.

**Ingestion** Health injuries are not known or expected under normal use.  
Overexposure may cause gastrointestinal disturbance.

**Symptoms or effects, including acute and delayed:**

**Inhalation** None known or expected under normal use.

**Eye Contact** None known or expected under normal use.

**Skin Contact** None known or expected under normal use.

**Ingestion** None known or expected under normal use.

**Toxicological effects:**

Acute Toxicity	Based on available data, no evidence of acute toxicity.
Skin corrosion/irritation	Based on available data, not, or only slightly irritating.
Serious eye damage/irritation	Based on available data, no evidence of serious eye damage/irritation
Respiratory or skin sensitization	Based on available data, not expected to be a respiratory or skin sensitizer.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, no evidence of carcinogenicity.
Reproductive toxicity	Based on available data, no evidence of reproductive toxicity.
STOT - single exposure	Based on available data, the classification criteria are not met.
STOT - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, no known aspiration hazard.

**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.

## SECTION 12: ECOLOGICAL INFORMATION

**OECD 301B Biodegradability** >90%

**Bioaccumulation** Not available

OECD 201  
Algae, EC50, 96hr,  
mg/L

>40,000

OECD 202  
Daphnid, EC50, 96hr,  
mg/L

>19,000

OECD 203  
Fathead Minnow, LC50,  
96hr, mg/L

>43,000

## SECTION 13: DISPOSAL CONSIDERATIONS

Disposal consider-  
ations

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

Dispose of in accordance with all local, regional, state, national and international regulations.

Waste from residues/  
unused products

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.

Contaminated  
packaging

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

ICAO

Not regulated

IMDG

Not regulated

IATA

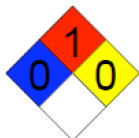
Not regulated

## SECTION 15: REGULATORY INFORMATION

<b>US TSCA Inventory</b>	<b>All components of this product are listed on the TSCA Inventory.</b>
<b>California Prop. 65</b>	<b>Not listed</b>
<b>SARA Extremely Hazardous Substances</b>	<b>Not listed as such</b>
<b>SARA Section 313</b>	<b>Does not contain any 313 ingredients</b>
<b>CERCLA Hazardous Substances</b>	<b>No reportable quantity for this product or its components</b>

**SECTION 16: OTHER INFORMATION**

**Revision date**                      **6/28/2018**



**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.**