



SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Company Information:

BioBlend Renewable Resources, LLC
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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 Synthetic AW 46
Product Description	Biodegradable Synthetic HEES Hydraulic Oil
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	May irritate eyes and/or skin. May be harmful if swallowed.
Unknown Toxicity Statement	>1% of the mixture consists of ingredients with unknown toxicity

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No.	Weight %
Biodegradable Synthetic Ester	PROPRIETARY	95-100%
Performance Package	MIXTURE	1-5%

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 for at least 15 minutes. Seek medical advice/attention if irritation develops.
First Aid - Skin Contact	Immediately remove contaminated clothing and shoes. Wash effected area immediately with warm water and soap. Seek medical advice/attention if irritation develops.
First Aid - Ingestion	If large quantities of this material are swallowed, call a physician immediately.
Recommendations for immediate medical care/special treatment	Physicians should treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	High volume water jet
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. Standard procedure for chemical fires.

Special firefighting equipment/precautions

Firefighters should use all standard protective equipment to fight fire including self-contained breathing apparatus. 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

Use personal protective equipment.

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. Avoid contact with skin, eyes, and clothing.

Storage recommendations

Store in original container in a cool, sheltered location. To maintain product quality, do not store in heat or direct sunlight. Keep container tightly closed in a dry, well ventilated area.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Contains no substances with occupational exposure limit values.

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

Safety goggles or safety glasses with side shields are recommended.

Respiratory Protection

No personal respiratory protective equipment normally required.

Skin/Body Protection Oil resistant gloves and impervious clothing 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

Appearance	Amber liquid
Odor	Mild odor
Odor Threshold	Not available
pH	Not available
Melting Point/ Freezing Point	Not available
Initial Boiling Point/ Range	Not available
Flash Point	>590° F (>310° C)
Evaporation rate	Not available
Flammability	Not available
Flammability, upper limits	Not available
Flammability, lower limits	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	Not available
Solubility(ies)	Soluble in many organic solvents
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	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid contact with incompatible materials and keep product away from open flames, hot surfaces, and sources of ignition.
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	Thermal decomposition may lead to formation of carbon oxides

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 pertaining to "vegetable oil mist". 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:

Information on toxicological effects:	
Acute Toxicity	Based on available data, no evidence of acute toxicity.
Skin corrosion/irritation	Based on available data, not, or only mildly irritating.
Serious eye damage/irritation	Based on available data, not, or only mildly irritating.
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
STOT - single exposure	No data available
STOT - repeated exposure	No data available
Aspiration hazard	No data available

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 >80%

Bioaccumulation	Non-bioaccumulative per US EPA definition
OECD 201 Alga, EC50, 72hr, mg/L	>13,000
OECD 202 Daphnia, EC50, 48hr, mg/L	>25,000
OECD 203 Fish, LC50, 96hr, mg/L	>50,000

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. 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

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

SECTION 16: OTHER INFORMATION

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