

SECTION 1: IDENTIFICATION

Company Information:

BioBlend Renewable Resources, LLC.
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Grundy Center, IA 50638
319-824-5203
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Emergency Contact Information:

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

Product Name	BioFlo AW 32
Product Description	Biodegradable Anti-Wear 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 (29 CFR 1910.1200), 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	0% of the mixture consists of ingredients with unknown toxicity

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No.	Weight %
Canola	120962-03-0	75-95%
Viscosity Modifier	PROPRIETARY	5-15%
Performance Package	MIXTURE	1-5%
Pour Depressant	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. 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 ₂), 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

Dam up and soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust) as directed by material manufacturer for containment of spills. Clean contaminated area thoroughly.

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.

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

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

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

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	>325° F (>160° 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	32

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 ₂), 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 pertaining to "vegetable oil mist". Excessive inhalation of mist may result in respiratory irritation.
Eye contact	Not expected to 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

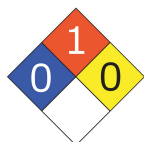
OECD 301B Biodegradability **>75%**

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

Revision date 12-05-2023



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.