



SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Company Information:

BioBlend Renewable Resources
1500 Jarvis Ave.
Elk Grove Village, IL 60007
(630) 227-1800

Emergency Contact Information:

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

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|---------------------|---|
| Product Name | BioFlo HFDU 68 |
| Product Description | Biodegradable Anti-Wear Hydraulic Oil |
| Product Use | Product is intended for use as an industrial lubricant. |

SECTION 2: HAZARD(S) IDENTIFICATION

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| 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

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| 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

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| 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

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| 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 | >500° F (>260° 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 |

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|---|---------------|
| Solubility in water | Negligible |
| Partition coefficient: n-octanol/water | Not available |
| Auto-ignition temperature | Not available |
| Decomposition temperature | Not available |
| Viscosity @ 40C, cSt | 68 |

SECTION 10: STABILITY AND REACTIVITY

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| 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:

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| 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:

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|-----------------------------------|---|
| 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 **>70%**

SECTION 15: REGULATORY INFORMATION

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|-------------------------------------|--|
| 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 6_28_2018



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