

SECTION 1: IDENTIFICATION

Company Information:

BioBlend Renewable Resources, LLC
2250 Arthur Avenue
Elk Grove Village, IL 60007
(630) 227-1800

Emergency Contact Information:

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

Product Name	BioGrease HD 2
Product Description	Biodegradable Heavy Duty Lithium Grease No. 2
Product Use	Product is intended for use as an industrial lubricating grease.

SECTION 2: HAZARD(S) IDENTIFICATION

Hazard Statement

This chemical is 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).

May cause an allergic skin reaction



WARNING

Precautionary Statements

PREVENTION: Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves.

RESPONSE: If on skin, wash with soap and water. If irritation or rash occurs, seek medical advice/attention. Wash contaminated clothing before reuse.

DISPOSAL: Dispose of contents/container in accordance with any and all regulations.

Hazard Classification	Skin sensitization - Category 1
Hazards not otherwise classified	None known
Unknown Toxicity Statement	0.656% of the mixture consists of ingredients with unknown toxicity

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No.	Weight %
Sulfurized isobutylene	68511-50-2	1 - 5%
Quinoline Polymer	26780-96-1	1 - 5%
Alkylmercaptothiadiazole	PROPRIETARY	<1%

The exact percentage (concentration) of composition has been withheld as a trade secret. If CAS number is "PROPRIETARY", the specific chemical identity and percentage of composition has been withheld as a trade secret.

SECTION 4: FIRST AID MEASURES

First Aid - Inhalation	Move to fresh air in case of accidental inhalation of vapors. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.
First Aid - Eye Contact	Rinse eyes and under eyelids immediately with water for at least 15 minutes.
First Aid - Skin Contact	Wash effected area immediately with soap and water. Remove and wash contaminated clothing before re-use.
Ingestion	If swallowed, seek medical attention immediately and show product container or Safety Data Sheet to appropriate individuals. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
Recommendations for immediate medical care/special treatment	Physicians should treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

Suitable extinguishing media	Dry chemical, CO ₂ , water spray or 'alcohol' foam
Unsuitable extinguishing media	None known
Specific hazards that may develop when chemical burns	None known
Special firefighting equipment/precautions	Firefighters should use all standard protective gear including a pressure-demand self contained breathing apparatus (MSHA/OSHA approved or equivalent) and full protective gear. Water mist may be used to cool closed containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Ensure adequate ventilation. Do not breathe vapor/dust. Use the appropriate personal protective equipment to avoid contact with skin, eyes, and clothing. Wash thoroughly after handling.
Emergency procedures	None Known
Methods and material for containment	Use inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust) as directed by manufacturer for containment of spills.
Cleanup procedures	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	Provide sufficient air exchange and/or exhaust in work rooms. In the case of insufficient ventilation, wear suitable respiratory equipment. Do not breath spray mist or vapors. Wear recommended personal protective equipment to avoid contact with eyes, skin and clothing and wash thoroughly after handling.
Storage recommendations	Store at room temperature in the original container away from incompatible materials and potential sources of ignition.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Components	ACGIH Exposure Limits	OSHA TWA (final)	NIOSH - Pocket Guide
Calcium carbonate	None	15 mg/m ³	10 mg/m ³ (TWA) 5 mg/m ³ (TWA)
Mineral oil	5 mg/m ³	5mg/m ³	5mg/m ³

Engineering controls **Ensure adequate ventilation**

Recommended Personal Protective Equipment:

Eye/Face Protection **Safety glasses with side shields should be worn when handling product.**

Respiratory Protection **If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, a NIOSH-certified respirator with organic vapor/P100 filter should be worn.**

Skin/Body Protection **Long sleeved clothing. Neoprene, latex, nitrile, butyl rubber or polyethylene type gloves.**

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance **Opaque Amber**

Odor **Characteristic**

Odor Threshold **No information available**

pH **Not applicable**

**Melting Point/
Freezing Point** **No information available**

**Initial Boiling Point/
Range** **No information available**

Flash Point **>520°F (>270°C)**

Evaporation rate **No information available**

Flammability **No information available**

**Flammability, upper
limits** **No information available**

Flammability, lower limits	No information available
Vapor pressure	No information available
Vapor density	No information available
Relative density	Not information available
Solubility(ies)	No information available
Solubility in water	Insoluble
Partition coefficient: n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity @ 40C	220 mm²/s

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 will not occur.
Conditions to avoid	None known
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	Carbon oxides, oxides of phosphorus, nitrogen oxides, sulphur oxides, smoke

SECTION 11: TOXICOLOGICAL INFORMATION

Potential health effects:

Inhalation	May cause irritation of respiratory tract
Eye contact	Contact with eyes may cause irritation
Skin contact	Prolonged contact may cause redness and irritation
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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:

Sensitization	Product contains a component that is classified as a skin sensitizer. No studies have been conducted on the product itself.
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	No information available

NTP Report on Carcinogens **Not listed**

IARC listing of potential carcinogens **Not listed**

OSHA listing of potential carcinogens

Not listed

SECTION 12: ECOLOGICAL INFORMATION

Biodegradability, OECD 301B >75%

Bioaccumulation Information not available

OECD 201 Alga, EC50, 72hr, mg/L >22,000

OECD 202 Daphnia, EC50, 48hr, mg/L >12,000

OECD 203 Fish, LC50, 96hr, mg/L >38,000

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal considerations Dispose of contents and container in accordance with all international, federal, state, regional and local regulations.

Waste from residues/unused products Dispose of waste from residues/unused product in accordance with all international, federal, state, regional and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.
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 Do not re-use empty containers

SECTION 14: TRANSPORT INFORMATION

US DOT Not regulated

TDG (Canada)	Not regulated
ADR	Not regulated
IMDG	Not regulated
IATA	Not regulated

SECTION 15: REGULATORY INFORMATION

US TSCA Inventory California Prop. 65	This product complies with TSCA inventory. May contain trace amounts of listed chemicals: toluene, benzene, di-n-butyl phthalate
SARA Extremely Hazardous Sub- stances	Not listed
SARA Section 313	Not listed
CERCLA Hazard- ous Substances	No reportable quantity for this product or its components

SECTION 16: OTHER INFORMATION

Revision date	7/10/2015
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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.