



Renewable Lubricants, Inc.

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Hartville, Ohio 44632-0474
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Web: www.renewablelube.com



Bio-Parts Cleaner/Degreaser (Soy Based)

"Biobased Lubricants that Perform Like Synthetics"

A specially formulated, ultimately biodegradable¹ Soy Cleaner/Degreaser that can be used to replace petroleum solvents for cleaning parts and equipment. This safe, nonflammable product has been formulated with anti-oxidants for improved stability. (Excellent electrical insulating value)

TYPICAL TEST DATA:

ASTM D-445 4.3 cSt @ 40°C
ASTM D-92 Flash Point 149 °C
Pound Per Gallon 7.16
ASTM D-877 Dielectric Strength >40KV

Bio-Cleaner/Degreaser (plus Corrosion Protection) (Soy Based)

A specially formulated, ultimately biodegradable¹ Soy Cleaner/Degreaser that can be used to replace petroleum solvents for cleaning parts and equipment. This safe, nonflammable product has been formulated with anti-oxidants and corrosion inhibitors for improved stability.

TYPICAL TEST DATA:

ASTM D-445 4.3 cSt @ 40°C
ASTM D-92 Flash Point 149 °C
Pound Per Gallon 7.16

Bio-General Purpose Cleaner/Degreaser (Water Emulsifiable) (Soy Based)

An excellent biobased, ultimate biodegradable¹ product that can be used to replace petroleum solvents for cleaning parts and equipment. May be used as a straight solution or may be solubilized with water before use. When used as a straight solution the product cleans and breaks down easily with a garden hose or pressure washers. Provides short term corrosion protection.

TYPICAL TEST DATA:

ASTM D-445 36 cSt @ 40°C
ASTM D-92 Flash Point 270°C
ASTM D-97 Pour Point -24 °C

STABILIZED by Renewable Lubricants* is RLI's trademark on their proprietary and patented anti-oxidant, anti-wear, and cold flow technology. High Oleic Base Stock (HOBS) are agricultural vegetable oils. This Stabilized technology allows the HOBS to perform as a high performance formula in high and low temperature applications, reducing oil thickening and deposits.

¹ Ultimate Biodegradation (Pw1) within 28 days in ASTM D-5864 Aerobic Aquatic Biodegradation of Lubricants

* Trademark of Renewable Lubricants, Inc.

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Availability **F.O.B. :Hartville, Ohio, USA** **1 Gallon** **5 Gallon Pails** **Drums** **Bulk**

MATERIAL SAFETY DATA SHEET

Renewable Lubricants, Inc.
P.O. Box 474
Hartville, OH 44632
Phone: (330) 877-9982 - Fax: (330) 877-2266

TRADE NAME: **Bio-Parts Cleaner/Degreaser (Soy Based)**
CAS NO: Mixture.
SYNONYMS: None.
GENERIC/CHEMICAL NAME: Mixture.
PRODUCT TYPE: Biodegradable Cleaner/Degreaser
PREPARATION/REVISION DATE: 02/28/05
TRANSPORTATION EMERGENCY PH NO: (330)877-9982

NFPA CODE: HEALTH: 1 FIRE: 1 REACTIVITY: 0
HMIS CODE: HEALTH: 1 FIRE: 1 REACTIVITY: 0

SECTION 1 - HAZARDOUS INGREDIENTS

- This material does not contain any chemical listed as a carcinogen or potential carcinogen by OSHA, IARC Monographs or National Toxicology Program.
 - This material has no known hazards.
 - All components of this material are on the U.S. T.S.C.A. Inventory or are exempt.
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SECTION 2 - PHYSICAL DATA

EVAPORATION RATE
(n-Butyl Acetate=1) Approx. 0
PERCENT VOLATILE: 0
BOILING POINT: >300°C (572°F)
VAPOR PRESSURE: <5 mm Hg at 72°F
VAPOR DENSITY (Air = 1): <1
SPECIFIC GRAVITY (H₂O = 1): 0.86 @ 15.6°C
SOLUBILITY IN WATER: Insoluble
APPEARANCE AND ODOR: light golden liquid mild odor

SECTION 3 - FIRE FIGHTING MEASURES

FLASH POINT (PMCC): 300° F (149° C)
UPPER FLAMMABLE LIMIT: Not Determined.
LOWER FLAMMABLE LIMIT: Not Determined.
EXTINGUISHING MEDIA: CO₂, dry chemical, alcohol foam. Water can be used to cool and protect exposed material.
SPECIAL FIRE-FIGHTING PROCEDURES: Recommend wearing self-contained breathing apparatus. Water may cause splattering. Material will float on water.

SECTION 4 - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: Contains vegetable oil. OSHA PEL of 5 mg per cubic meter. ACGIH STEL of 10 mg per cubic meter for mineral oil mists.

EFFECTS OF OVEREXPOSURE: May cause eye and skin irritation. Low order of toxicity.

SECTION 5 - EMERGENCY AND FIRST AID PROCEDURES:

ORAL: DO NOT INDUCE VOMITING. If conscious, give 2 glasses of water. Get immediate medical attention.

EYE: Flush with water at least 15 minutes. Get medical attention if eye irritation develops or persists.

SKIN: Wash with soap and water. Remove contaminated clothing. Get medical attention if irritation develops. Launder contaminated clothing before reuse.

INHALATION: Remove exposed person to fresh air if adverse effects are observed. If breathing is labored, administer oxygen. If breathing has stopped, apply artificial respiration. If irritation persists, get medical attention.

ADDITIONAL: Note to physician: Treat symptomatically.

SECTION 6 - STABILITY AND REACTIVITY

STABILITY: Material is normally stable at moderately elevated temperatures and pressures.

INCOMPATIBILITY: Oxidizing agents.

POLYMERIZATION: Will not occur.

THERMAL DECOMPOSITION: Smoke, carbon monoxide, aldehydes and other products of incomplete combustion.

SECTION 7 - SPILLS OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:

Prevent entry into sewers and waterways. Pick up free liquid for recycle/disposal. Absorb small amounts on inert material for disposal.

WASTE DISPOSAL METHOD: This material is non-hazardous for disposal under RCRA. Disposal should be in compliance with federal, state and local laws.

SECTION 8 - HANDLING AND STORAGE

HANDLING PROCEDURES: Keep containers closed when not in use. Wash thoroughly after handling.

STORAGE PROCEDURES: No special storage precautions required.

SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION PROCEDURES:	Use local exhaust ventilation to control mists or vapors. Additional ventilation or exhaust may be required to maintain air concentrations below recommended exposure limits.
GLOVES PROTECTION:	Use nitrile or neoprene gloves.
EYE PROTECTION:	Chemical goggles or face-shield.
RESPIRATORY PROTECTION:	Under normal use conditions, respirator is not usually required. Use NIOSH/MSHA approved disposable dust/mist mask if the recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.
CLOTHING RECOMMENDATION:	Long sleeve shirt is recommended. Wear a chemically protective apron when contact with material may occur. Launder contaminated clothing before reuse.

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