



Renewable Lubricants, Inc.
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Bio-Parts Cleaner/Degreaser™ Series (Food Grade H1, LFLV, and Corrosion Protection)

Soy-Based • Readily Biodegradable • NSF H1 Registered (Select Grades)

The Bio-Parts Cleaner/Degreaser™ series offers a range of soy-based, Readily biodegradable degreasers and parts cleaners formulated as safer, high-performance alternatives to petroleum-based solvents. These cleaners are ideal for removing oily, grimy dirt on used parts for maintenance, repairs, and rebuilding processes. Formulations are available for food-grade applications (NSF H1), low flash/low VOC requirements (LFLV), and with corrosion protection for short-term metal storage.

These products are safe, nonflammable, contain no hazardous VOCs (per CARB), and are manufactured under kosher supervision without any animal byproducts. They feature excellent dielectric strength (up to 50kV) and are suitable replacements for mineral spirits and Stoddard solvents.

Benefits

- Readily biodegradable (Pw1, ASTM D-5864)
- Available in NSF H1 food-grade formulations
- Safer alternative to petroleum-based solvents
- Nonflammable, noncorrosive, non-toxic
- No hazardous VOCs (per CARB regulations)
- Excellent dielectric strength (up to 50 kV)
- Provides short-term corrosion protection (Corrosion Protection version)
- Water-emulsifying resistance (none detected)
- Manufactured under kosher supervision
- Contains no animal byproducts
- STABILIZED™ HOBS technology for enhanced oxidative stability

Application / New Filling

Recommended for Cleaning:

- Engines, transmissions, differentials, electric motors
- Machinery parts prior to rebuilding
- Road grime, pine sap, tar, and dirty equipment
- Jacks, bearings, bolts, linkages, chains, cables, tracks
- Tools, slides, shafts, firearms, air tools, machine tools
- Metal surfaces and assembly parts
- Food processing equipment (H1 grades only)

Use Instructions:

Apply by spraying, brushing, wiping, or immersion. Allow to penetrate buildup and then wipe or rinse. Use appropriate PPE and ventilation. Ensure surfaces are rinsed or wiped dry for food-contact areas.

Specifications and Approvals

- NSF H1 Registration for applicable versions (e.g., LFLV – Reg. #165719)
- Meets EPA VGP 2013 EAL standards
- Complies with 21 CFR 178.3570 for incidental food contact (H1 grades)
- No VOCs per California Air Resources Board (CARB) for standard versions
- Biodegradability (ASTM D-5864) – >60% in 28 days
- Manufactured under kosher supervision

Bio-Parts Cleaner/Degreaser™ (Soy-Based Food Grade² H1)

A specially formulated, ultimately biodegradable¹ Soy Cleaner/Degreaser that is a safe improvement over petroleum solvents for cleaning parts and equipment in food processing plants. This safe, nonflammable biobased product contains no hazardous Volatile Organic Compounds (no VOCs according to CARB).

TYPICAL TEST DATA:

ASTM D-445 3.9 cSt @ 40°C	ASTM D-93 PMCC Flash Point, 130 °C (266 °F)
ASTM D-97 Pour Point, -12°C	ASTM D-665A Corrosion Test, Pass
Pound per Gallon, 7.16	ASTM D-130 Copper Corrosion, 1a
ASTM D-877 Dielectric Strength, 47kV	ASTM D-1160 Distillation Temp, 355 °C
RLI Product Item # 8663-	Emulsification with Water- <u>None-</u>

Bio-Parts Cleaner/Degreaser™ plus Corrosion Protection (Non-Food Grade Product)

This ultimately biodegradable¹ product is the same as above Bio-Parts Cleaner Degreaser with the exception that it is nonfood grade. It provides all the same performance benefits plus it is formulated with a non-food grade corrosion inhibitor to provide short term corrosion protection on ferrous and non-ferrous metal surfaces. This safe, nonflammable biobased product contains no hazardous Volatile Organic Compounds (no VOCs according to CARB). Excellent for cleaning assembly parts and new unfinished metal, and provide short term in-house storage protection.

TYPICAL TEST DATA:

ASTM D-445 3.9 cSt @ 40°C	ASTM D-93 PMCC Flash Point, 130 °C (266 °F)
ASTM D-97 Pour Point, -12°C	ASTM D-665A Corrosion Test, Pass
Pound per Gallon, 7.16	ASTM D-130 Copper Corrosion, 1a
ASTM D-877 Dielectric Strength, 47kV	ASTM D-1160 Distillation Temp, 355 °C
RLI Product Item # 8666-	Emulsification with Water- <u>None-</u>

Bio-Parts Cleaner/Degreaser™ LFLV

(Soy-Based Food Grade² H1)

NSF Registration No 165719

A specially formulated Low Flash-Low VOC (LFLV), that provides faster evaporation and less oily film after cleaning. It is an ultimately biodegradable¹ Cleaner/Degreaser that is a safer improvement over just petroleum solvents alone for cleaning parts and equipment in food processing plants. This safe, nonflammable low VOC product contains approximately 25% Volatile Organic Compounds (VOCs).

TYPICAL TEST DATA:

ASTM D-445 2.5 cSt @ 40°C	ASTM D-93 PMCC Flash Point, 80 °C (176 °F)
ASTM D-97 Pour Point, -20°C	ASTM D-665A Corrosion Test, Pass
Pound per Gallon, 6.9	ASTM D-130 Copper Corrosion, 1a
ASTM D-877 Dielectric Strength, 50 kV	ASTM D-1160 Distillation Temp, 355 °C
RLI Product Item # 8759-	Emulsification with Water- <u>None</u> -