



Renewable Lubricants, Inc.

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BPL™ Food Grade Bio-Penetrating Lubricant™



H1, H2



"Biobased Lubricants that Perform Like Synthetics"

BPL™ Food Grade¹ is a Multi-functional biodegradable penetrant. It is a specially formulated biobased product that can be used as a light lubricant in food processing equipment and is essentially odorless and tasteless. Because of the super high viscosity index of the Stabilized* HOBS, this product performs in many applications. BPL™'s patented composition of additives and base fluids provides a protective, thin film lubricant and high dielectric (47 kV ASTM D-877) insulating property in electrical equipment. This natural oily film has shown in laboratory and field tests to out perform petroleum base oils in terms of natural lubricity. BPL™ Food Grade can be used in all areas of food manufacturing including light cutting, drilling, and taping of metals in and around food manufacturing plants and other environmental areas. Contains no animal byproducts and are manufactured under kosher supervision.

BPL™ Food Grade¹ is formulated to penetrate into close tolerant areas, cleans and then lubricates, and prevent corrosion. BPL™'s ability to creep is demonstrated by placing a 3/8" x 2" bolt on its head with 1/4" of BPL™ in the bottom of a lab beaker; BPL™ creeps vertically up the threads. It protects deep into the core of a cable or chain link and is excellent as a light air tool lubricant and preservative oil for parts. BPL™ contains no hazardous volatile organic compounds (VOCs). EPA, OHSA, and Workers Acceptance are high with Biobased Products.

- Meet the Environmental Protection Agency (EPA) 2013 Vessel General Permit (VGP) guidelines for ENVIRONMENTALLY ACCEPTED LUBRICANTS (EALs), and should be used where LOW TOXICITY, BIODEGRADABILITY and NON-BIOACCUMULATION properties are required.
- They exceed the acute toxicity (LC-50 / EC-50 >1000 ppm) criteria adopted by the US Fish and Wildlife Service and the US EPA.
- They are ENVIRONMENTALLY RESPONSIBLE lubricants formulated from renewable agricultural biobased resources.
- Earth's environmental future rests in the use of renewable materials.

Applications with Incidental Food Contact in and Around Food Processing Equipment Areas, "clean" industries such as food, beverage, pharmaceutical personal care products and environmental areas.

Food Machinery Equipment

Tools
 Jacks
 Machine Tools
 Linkage Cables

Food and Beverage Manufacturing

Gaskets/Seals
 Assembly Parts
 Hinges
 Air Valves
 Bearings
 Chains
 Shafts
 Air Tools

Bolts
 Dies
 Locks
 Light cutting oil



NSF Registration: 140448 H1, H2 and 140450 H1, H2 -Aerosol

Typical Data

Specific Gravity @60°F.	ASTM D-287	.88
Viscosity @ 40°C	ASTM D-445	13
Flash Point, PMCC	ASTM D-93	295°F (146°C)
Pour Point	ASTM D-97	-30°C
Copper Corrosion Prevention	STM D-130	1A
Rust Prevention	ASTM D-665	
Distilled Water		Pass-Clean
Synthetic Sea Water		Pass-Clean
Four Ball Wear	ASTM D-2266	0.40 mm

¹This product is acceptable as an incidental food contact lubricant (H1) for use in and around food processing areas. Such compounds may be used on food processing equipment as a protective anti-rust film, as a release agent on gaskets or seals of tank closures, and as a lubricant for machine parts and equipment in locations in which there is a potential exposure of the lubricated part to food.

STABILIZED by Renewable Lubricants* is RLI's trademark on their proprietary and patented 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. Patented Product: US Patent 6,383,992, US Patent 6,534,454, US Patent 6,624,124, US Patent 6,620,772 with additional Pending and Foreign Patents. ™ Trademark of Renewable Lubricants, Inc. Copyright 1999 Renewable Lubricants, Inc.

Availability

F.O.B.: Hartville, Ohio, USA

	<u>11 oz Aerosol Spray Can</u>	<u>12oz. Spray</u>	<u>1 Gallon</u>	<u>5 Gallon Pail</u>	<u>Drum</u>	<u>Totes</u>	<u>Bulk</u>
Item #	87002	87001	87003	87004	87006	87007	87009