



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.

BPL™ Food Grade¹ is formulated to penetrate into close tolerant areas, then lubricate, 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. BPL™ Food Grade meets the Environmental Protection Agency (EPA) 2013 Vessel General Permit (VGP) guidelines for Environmentally Acceptable Lubricants (EALs), and should be used where **LOW TOXICITY, BIODEGRADABILITY** and **NON-BIOACCUMULATION** properties are required. BPL™ exceeds the acute toxicity (LC-50 / EC-50 >1000 ppm) criteria adopted by the US Fish and Wildlife Service and the U.S. EPA. This Biobased product has exceptional benefits over petroleum oils in these applications because there is direct danger of polluting the water, soil, or work environment through loss of the lubricant.

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

Food and Beverage Manufacturing

Tools	Gaskets/Seals	Bearings	Bolts
Jacks	Assembly Parts	Chains	Dies
Machine Tools	Hinges	Shafts	Locks
Linkage Cables	Air Valves	Air Tools	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., cSt.	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. TM Trademark of Renewable Lubricants, Inc. Copyright 1999 Renewable Lubricants, Inc.

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

**New Size 11 oz Aerosol Spray Can BPL	12oz. Spray	1 Gallon	5 Gallon Pail	Drum	Totes	Bulk
Item # 87002	87001	87003	87004	87006	87007	87009