

Renewable Lubricants, Inc.

Distributed By: DM's Bio-Based Fluid Supply Inc. 10 McEwan Dr. W, Unit 4B Bolton, ON, Canada L7E 1H1

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Bio-Penetrating Lubricant TM (BPL TM)



"Bio-based Lubricants that Perform Like Synthetics"

A specially formulated, ultimately biodegradable¹ penetrant that can be used as a light lubricant. Because of the super high viscosity index of the HOBS, this product performs in many applications. BPLTM's patented composition of additives and base fluids provides a protective, thin film lubricant. This natural oily film has shown in laboratory and field tests to outperform petroleum base oils in terms of natural lubricity.

BPLTM is formulated to penetrate into close tolerant areas, then lubricate, and prevent corrosion. BPLTM'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; BPLTM 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. BPLTM contains no VOCs, displaces moisture, and provides a high dielectric (47 kV ASTM D-877) insulating property in electrical equipment. BPLTM 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 petroleum lubricant.

- Industrial	- Trans	sportation -	Marine - Agricultural
Machine Tools		Bearings	Bolts
Assembly Parts		Wire ropes	Chains
Shafts		Hinges	Firearms
Linkage Cables		Air Valves	Air Tools
	ASTM	D-287	.871
, cSt.	ASTM	D-445	13.
	ASTM	D-93	295°F (146°C)
nal)	ASTM	D-5985	-30°C
	ASTM	D-2266	.40 mm
revention	ASTM	D-130	1A
	ASTM	D-665	
ater			Pass-Clean
ea Water			Pass-Clean
	Machine Tools Assembly Parts Shafts	Machine Tools Assembly Parts Shafts Linkage Cables 260°F. ASTM ASTM ASTM ASTM ASTM ASTM ASTM ASTM	Machine Tools Assembly Parts Shafts Linkage Cables Machine Tools Assembly Parts Wire ropes Hinges Air Valves Machine Tools Wire ropes Air Valves Machine Tools Air Valves As TM D-287 ASTM D-445 ASTM D-93 ASTM D-93 ASTM D-5985 ASTM D-2266 ASTM D-130 ASTM D-130 ASTM D-665

STABILIZED by Renewable Lubricants^{TM*} 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.

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

Availability F.O.B.: Bolton, ON, Canada

**New Size 11 oz Aerosol Spray Can BPL 12oz. Spray 1 Gallon 5 Gallon Pails Drums Bulk

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

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Bio-Penetrating Lubricant TM (BPL TM) Products Line Page 2

Bio-Penetrating Lubricant TM (BPL TM) See Data Sheet

BPL[™] is a product that everyone needs. It performs as a penetrant, but best of all, it is a multifunctional product. BPL[™] is an excellent lubricant as shown in, ASTM D-2266 4 ball wear test .40 mm scar wear, and passes clean (no rust) on ASTM D-665 both A and B corrosion test. BPL[™] product applications include corrosion inhibitor/preservative oil for outside applications or in the inner plant production work area for protecting parts. Because it lubricates, it can be used for metalworking, fabricating, assembly oils, and to protect dies and molds from corrosion and wear. Another area includes chain and cable lubrication – it penetrates deep into the inner core of the cable or chain link, preventing rust and wear. It has the right formulation to be an excellent, light air tool oil and spindle oil for high speeds. BPL[™] can be used to protect guns and tools (passes salt water corrosion protection ASTM D-665) and it tests excellent on yellow metals (passes copper strip corrosion ASTM D-130 test 1A). The advantages are many: biodegradable, renewable, low toxicity, environmentally non-toxic, contains no hazardous Volatile Organic Compounds (VOCs), safer, helps secure the American Economy, reduces our dependence on foreign oils, and multi-performance. EPA, OSHA, and Workers acceptance are high with Bio-based Products.

Renewable Lubricants offers many additional BPLTM products to meet your needs:

BPL™ Plus Tack (Lubricant & Corrosion Inhibitor)

The addition of a food grade tackifier provides adhesiveness to the performance of BPL $^{\text{TM}}$. Some applications and environmental conditions may require an additional tacky surface film that protects equipment from corrosion. The tackifier added to BPL $^{\text{TM}}$ helps meet this requirement and also holds the lubricant to the surface of moving parts and improves anti-wear.

BPL™ Plus Moly + Tack (Chain & Cable Lubricant)

BPL[™] Plus Moly with Tackifier has performance advantages in some applications such as high speed roller chains, cables, and moving parts. This product penetrates rapidly and adheres to the application, forming a lubricating film that cannot be wiped away by extreme pressures and high speeds. It protects metal surfaces from rust and corrosion that are exposed to environmental conditions. The molybdenum disulfide (Moly) provides an extreme pressure lubricant that reduces friction and wear.

BPL™ Plus Moly (Chain & Cable Lubricant)

A specially formulated, Biobased, Penetrating Lubricant that provides a protective Moly film to sliding surfaces, but is more resistant to dust and dirt than the BPL more resistant to dust and direct than the BPL more resistant to dust and direct than the BPL more resistant to dust and dire

BPL™ Food Grade (Meets USDA-H1)

BPL Food Grade[™] is specially formulated and packaged for use as a food grade lubricant.

BPL TM Modified

Additive composition and surface tension of BPL^{$^{\text{TM}}$} can be modified for special customer's needs. BPL Modified^{$^{\text{TM}}$} products are used for metalworking, fabricating, corrosion inhibitors/preservative oils, etc.

Replace your WD-40 and LPS with BPL

Availability F.O.B.: Bolton, ON, Canada

**New Size 11 oz Aerosol Spray Can BPL 12oz. Spray 1 Gallon 5 Gallon Pails Drums Bulk