

## ⇒ PL-BIO

### Multi-Purpose Penetrating Lubricant

#### Description

The PL-BIO is the best ecological biodegradable all-purpose lubricant with antifriction treatment on the market. It is more effective, longer-lasting and faster-acting than any other-alike product.

#### Characteristics and Benefits

PL-BIO lubricates and reduces friction on all moving mechanisms and parts. As soon as it is applied, the PL-BIO penetrates deeply and protects against corrosion and wear, leaving a protective lubricant film. Made from renewable resources, PL-BIO is ecological and safe for users:

- Biodegradable and ecological;
- Not regulated according to WHMIS;
- Does not contain silicone, Teflon, organic chlorine and nitrite compounds;
- Does not contain heavy metals such like: lead, zinc, chromium, magnesium and vanadium;
- Does not contain petroleum oil or additives containing petroleum oil;
- No disagreeable odor (like petroleum odor);
- Dielectric properties up to 30 kV;
- Does not contain VOC (Volatile Organic Compounds, react with nitrogen oxides (NOx) in the presence of sunlight to produce ground level ozone and photochemical smog). Reducing VOC emissions will thus improve air quality;
- High flash point (180°C): no storage and shipping restrictions.

The PL-BIO is both versatile and economical. It outclasses and replaces all similar products, such as: ordinary all-purpose lubricants, chain lubricants, etc.

The PL-BIO is approved by **Health Canada and NSF, category-H1**, where it can be used in food processing facilities (accidental contact with food).

It's spray version is exceptional; Does not contain CFC, isobutane and propane, therefore does not affect the ozone layer. Economical because it contains more active product and not much propellant.

#### Types of Application

PL-BIO is a must for the workshop, the car, the house (ideal for garden tools, pruning shears), no matter what the size or the nature of the business. It can also be used in companies working in food industry. It can be used on locks, padlocks, hinges, chains and bolts. Use it in all circumstances where lubrication and protection against corrosion and wear are needed.

#### Directions for Use

Apply PL-BIO on parts to be treated.

#### Warning

Dielectric properties:  
Apply PL-BIO on dry and clean parts.  
Any contamination will void the dielectric properties and safe use of the product.

#### Available Sizes

In spray: 170 g  
Liquid: 500 mL, 4 L, 20 L, 55L, 205 L

#### Product Code

# 480

Characteristics	ASTM Test	Typical Values PL-BIO
Flash Point:	D92	180°C
Pour Point:	D97	-20°C
Specific gravity at 15°C:	D4052	0,8696 g/cm <sup>3</sup>
Viscosity at 40°C:	D445	7,13 cSt
Viscosity at 100°C:	D445	2,5 cSt
Viscosity index:	D2270	180
Dielectric breakdown:	D877	30 kV
Rust preventive:	D665	
(A) distilled water:		Pass
(B) sea water:		Pass
Corrosion - copper strip:	D130	1a
4-ball E.P.:	D2783	
-load wear index:		19 kg
-weld index:		160 kg
4-ball wear:	D4172	0,42 mm
Biodegradability:		
-primary:	CEC L-33-A-93	>85%