# **EcoLine® CLP**





#### PRODUCT DESCRIPTION

EcoLine® CLP is a "green" version of a multifunctional penetrant/lubricant, which provides the following properties:

- Lubrication
- Penetration
- Corrosion protection in humid and harsh environments
- Cleaning

This product is designed for industrial, shop, and home use. EcoLine® CLP is perfect for indoor and outdoor application.

This EcoLine® product is based on a combination of canola oil and canola methyl ester as a carrier. Being 89% biobased, this product provides excellent lubricity and biodegradability. EcoLine® CLP is environmentally friendly and leaves behind a very persistant layer that protects against corrosion. EcoLine® CLP has been certified as a USDA Certified Biobased Product (www.biopreferred.gov)

### **FEATURES**

- USDA Certified Biobased Product
- Contains 89% biobased content
- Environmentally friendly and biodegradable
- Replaces hazardous mineral oils and other hydrocarbon based solvents
- Extends the life of machinery parts by reducing friction and wear
- Excellent penetrant
- Provides multi-metal protection
- Cleans and lubricates
- Loosens frozen and rusted parts
- Non-flammable and non-toxic
- Can be used as a mold release
- Freeze stable
- Easy to remove if needed with common detergents

### **TYPICAL APPLICATIONS**

- In-plant machining
- Bar and chain oil
- Flange lubricant
- Biodegradable and preservative oil for machinery
- Locks and hinges
- Nuts and bolts
- Office machinery
- Penetrating oil/lubricant

#### **METALS PROTECTED**

- Carbon steel
- · Galvanized steel
- Stainless steel
- Aluminum and alloys



### TYPICAL PROPERTIES

Clear amber/brown liquid **Appearance** 

Corrosion Resistance Up to 24 months

99-100% Non-volatile Content

7.6-7.7 lb/gal (0.91-0.92 kg/l) Density

Kinematic viscosity 12.54 centistokes (mm<sup>2</sup>/s) (at 40°C)

# TEST RESULTS

#### **Corrosion Tests**

Name	ASTM D-1748 (Humidity Chamber)	ASTM B-117 (Salt Spray Chamber)
EcoLine® CLP	>600 hours	65 hours

# **Lubricating Properties**

Tests	
ASTM D-4172 (Four Ball Wear)	0.69 mm scar diameter
ASTM D-3233 (Falex Pin & Vee)	1,349 lbs.
ASTM D-5620A (Evaluating Thin Film Fluid Lubricants)	Average 42 minutes

Lubricant used Torque to loosen, psi Control >250 Not able to unscrew EcoLine® CLP\* 171 Able to unscrew Conventional penetrant/lubricant 236 Able to unscrew widely used

Measuring of the Torque of Loosening Rusted Nuts

\*Note: EcoLine® CLP cleans rust during applications

# STORAGE AND PACKAGING

EcoLine® CLP is packaged in 16 oz. (455 ml) spray bottles, 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk. The product should be sealed before storage. The shelf life of EcoLine® CLP is up to 24 months.

Note: Please see the Safety Data Sheet (SDS) for proper handling of product.

FOR INDUSTRIAL USE ONLY **KEEP OUT OF REACH OF CHILDREN KEEP CONTAINER TIGHTLY CLOSED** NOT FOR INTERNAL CONSUMPTION **CONSULT SAFETY DATA SHEET FOR MORE INFORMATION** 

#### LIMITED WARRANTY

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