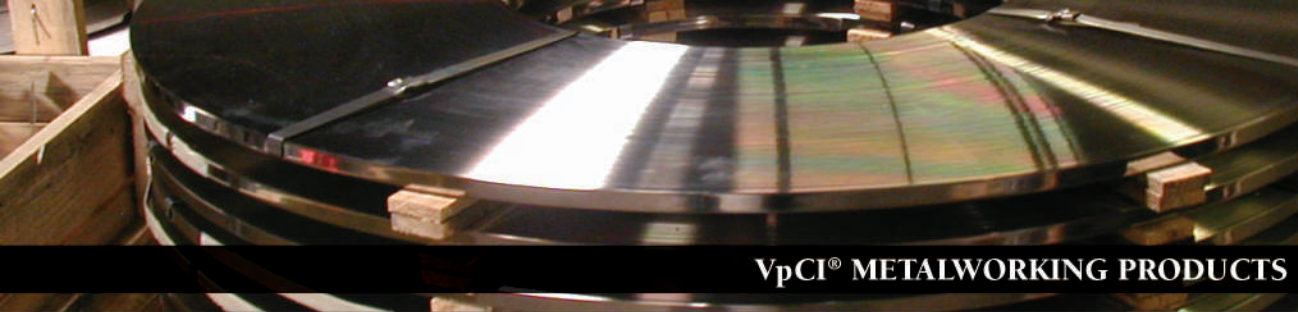




EcoLine® CLP



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 persistent 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

Appearance	Clear amber/brown liquid
Corrosion Resistance	Up to 24 months
Non-volatile Content	99-100%
Density	7.6-7.7 lb/gal (0.91-0.92 kg/l)
Kinematic viscosity	12.54 centistokes (mm ² /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

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

Measuring of the Torque of Loosening Rusted Nuts

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

*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.

LIMITED WARRANTY

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Cortec® Corporation shall have no liability for any injury, loss or damage arising out of the use of or the inability to use the products.

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