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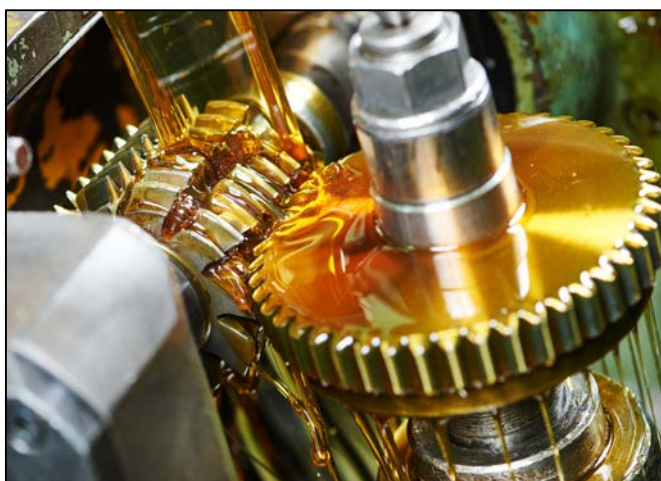


Attention: Editor
August 21, 2018
PRODUCT RELEASE



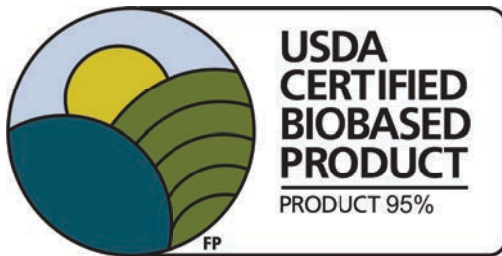
Cortec® Releases Biobased EcoLine® ELP for General-Purpose Lubrication

General purpose lubrication around the plant, shop, or home is easy and more environmentally friendly with Cortec's EcoLine® ELP. EcoLine® ELP (Extreme Lubricant Penetrant) is a high performance biodegradable soy-based lubricant and penetrant. It is formulated from natural seed oils and select additives that offer lubricity and performance superior to conventional lubricants. Its excellent performance, biobased nature, and low



environmental impact make EcoLine® ELP a highly desirable option for industrial and household applications. EcoLine® ELP can be used on all types of metal for multiple purposes around the shop, plant, or home. Whether lubricating moving parts, loosening rusty bolts, or cooling/lubricating basic metal cutting operations, EcoLine® ELP serves as an excellent all-purpose lubricant for general maintenance needs. It can be applied to multi-metal parts for:

- General lubrication, penetration, and corrosion protection
- Milling, tapping, and reaming
- Cutting, grinding, and drilling
- Loosening rusty bolts
- Quieting squeaky hinges and moving parts
- And practically any basic lubrication need you can think of!



Having a can of EcoLine® ELP on hand reduces the need to stock multiple lubricants for everyday MRO (Maintenance, Repair, and Operations) needs. In addition to providing lubrication and protection against rust and corrosion, EcoLine® ELP repels water and allows higher equipment operating speeds by cooling moving

parts and reducing smoke. EcoLine® ELP has high flash and fire points, is not toxic to plants, and is chlorine-free. It contains 95% USDA certified biobased content and is a qualified product under the mandatory federal purchasing initiative of the USDA BioPreferred® Program (for more information, please visit: www.biopreferred.gov).

EcoLine® ELP comes in 11 oz. (312 g) aerosols for convenient use around your facility. It is also available in pails, totes, and bulk for heavy use. With EcoLine® ELP, extreme lubrication protection with sustainable products is not a dream but a reality. *

To learn more about EcoLine® ELP, please visit:

https://www.cortecvci.com/Publications/PDS/EcoLine_ELP.pdf

**It is always important to ensure that use and disposal of all materials is in accordance with local guidelines.*

VpCI® Heavy Duty Lubricants & Greases

EcoLine® ELP

BENEFITS

- Repels against rust and corrosion
- Allows higher equipment operating speeds by cooling moving parts and reducing smoke
- Reduces need to stock multiple lubricants
- Quiets water

APPLICATION

Apply to metal parts for:

- General lubrication, penetration, and corrosion protection
- Milling, tapping, and reaming
- Cutting, grinding, and drilling
- Loosening rusty bolts
- Quieting squeaky hinges and moving parts

PHYSICAL PROPERTIES

Physical Property	Test Method	Value
Appearance	Visual	Light Yellow
Viscosity @ 100°F (40°C)	ASTM D 445	41 cP
Viscosity @ 212°F (100°C)	ASTM D 445	1.1 cP
Flash Point	ASTM D 93	500°F (260°C)
Fire Point	ASTM D 93	500°F (260°C)
4 Ball Wear (mm)	ASTM D 4172	0.47
4 Ball Weld (kg)	ASTM D 1056	250
Pin & Needle Test	ASTM D 10218	1000 kg
Pen. Time	ASTM D 117	45 (100°C)
Rust Protection	ASTM D 665	Pass, None
Rust Penetration	ASTM D 665	Pass, None
Rust Acceleration	ASTM D 665	Pass, None
Rust Corrosion Severity	ASTM D 665	Pass, None
Rust Corrosion Severity	ASTM D 665	Pass, None

PRODUCT DESCRIPTION

EcoLine® ELP (Extreme Lubricant Penetrant) is a high performance biodegradable synthetic lubricant and penetrant for general purpose use. It is formulated from natural seed oils and select additives that offer lubricity and performance superior to conventional lubricants. Because of performance, biobased nature, and low environmental impact under EcoLine® ELP is highly desirable option for environmentally conscious industries.

EcoLine® ELP can be used on all types of metal for multiple purposes around the shop, plant, or home. Whether lubricating moving parts, loosening rusty bolts, or cooling lubricating, EcoLine® ELP serves as an excellent all-purpose lubricant for general maintenance needs.

FEATURES

- Superior lubricity and performance compared to conventional lubricants
- Made from renewable crop-based vegetable oils
- Safe for metals
- Not toxic to plants
- High flash and fire points
- Chlorine-free
- Biodegradable

CORTEC
CORROSION TECHNOLOGY

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Cortec® Corporation is the global leader in innovative, environmentally responsible VpCI® and MCI® corrosion control technologies for Packaging, Metalworking, Construction, Electronics, Water Treatment, Oil & Gas, and other industries. Our relentless dedication to sustainability, quality, service, and support is unmatched in the industry. Headquartered in St. Paul, Minnesota, Cortec® manufactures over 400 products distributed worldwide. ISO 9001, ISO 14001:2004, & ISO 17025 Certified.

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