

# **VpCI®-322 Oil Concentrate**



# **PRODUCT DESCRIPTION**

VpCI<sup>®</sup>-322 oil-based concentrate adds corrosion protection to lubricating or hydraulic oils. VpCI<sup>®</sup>-322 provides excellent protection in indoor or open air conditions. First, oil-soluble corrosion inhibitors offer a tenacious film which clings to metal surfaces, giving excellent contact corrosion protection. In addition to this film barrier, VpCI<sup>®</sup>-322 releases Vapor phase Corrosion Inhibitors (VpCI<sup>®</sup>) into the air above the oil. These VpCIs attach to metal surfaces for additional corrosion protection.

# **FEATURES**

- Corrosion protection for ferrous and non-ferrous metals
- Does not contain hazardous barium, chromates, nitrites, or phosphate inhibitors
- High flash point
- Low in toxicity and thermally stable, providing long-lasting contact and VpCls
- Passes through a size 5 micron filter
- Can be used in hydraulic applications
- Provides protection in presence of chlorides
- When added at a concentration level of 5-10% to hydraulic fluids, does not affect pour point and viscosity at low temperatures
- Compatible with most mineral and synthetic oils
- Suitable for both operating and intermittent use conditions

#### **TYPICAL APPLICATIONS**

Lubricating and hydraulic oil systems for intermittent operation: Add VpCl®-322 to oil at a ratio of 1 part VpCl®-322 to 9 parts oil for 24 months protection.

Tanks, gearboxes, differentials - stored or shipped dry: Fog cavity interior with VpCI®-322 concentrate using 1 quart (1 liter) per 35 ft<sup>3</sup> (1.1 m<sup>3</sup>) of enclosed space.

#### **METALS PROTECTED**

- Carbon Steel
- Copper
- Stainless Steel
- Cadmium
- Galvanized Steel
- Magnesium
- Aluminum
- Silver
- Brass
- Zinc



# **TYPICAL PROPERTIES**

Appearance Corrosion Resistance Coverage	Dark amber viscous liquid Up to 24 months 1260-1370 ft²/gal (31-34 m²/l)
Film Thickness	0.5-1 mil (12.5-25 microns)
Film Type	Oily, paraffinic
Flash Point	>212°F (>100°C)
Non-volatile Content	90-99.5%
Removal Method	Petroleum solvents
	Alkaline cleaners
	(VpCl <sup>®</sup> -410 series)
рН	8.5-10.0 (1% aqueous solution)
Density	7.4-7.6 lb/gal (0.89-0.91 kg/l)
Viscosity at 70°F	225
Pour Point	-13°F (-25°C)

### PACKAGING AND STORAGE

VpCl<sup>®</sup>-322 is packaged in 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 VpCl<sup>®</sup>-322 is up to 24 months.

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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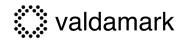
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Valdamark Limited Unit 13, 30 The Downs Altrincham, Cheshire, WP14 2PX, United Kingdom. valdamark@live.com Tel: +44 (0) 161 706 0388



Environmentally Safe VpCI® MCI® Technologies

4119 White Bear Parkway, St. Paul, MN 55110 USA Phone (651) 429-1100, Fax (651) 429-1122 Toll Free (800) 4-CORTEC, E-mail info@cortecvci.com Internet http://www.cortecvci.com

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