



## PRODUCT DESCRIPTION

VpCI-322 oil-based concentrate adds corrosion protection to lubricating or hydraulic oils. VpCI-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-322 releases vapor phase corrosion inhibitors into the air above the oil. These VpCIs attach to metal surfaces for additional corrosion protection.

## FEATURES

- Corrosion protection to 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 vapor phase corrosion inhibitors
- 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 VpCI-322 to oil at a ratio of 1 part VpCI-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
- Stainless Steel
- Galvanized Steel
- Aluminum
- Brass
- Copper
- Cadmium
- Magnesium
- Silver
- Zinc

## TYPICAL PROPERTIES

Appearance	Dark amber viscous liquid
Corrosion Resistance	Up to 24 months
Coverage	1260-1370 ft <sup>2</sup> /gal (31-34 m <sup>2</sup> /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 (VpCI-410 series)
pH	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)

## STORAGE AND PACKAGING

VpCI-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 VpCI-322 is up to 24 months.

