



VpCI™ METALWORKING PRODUCTS

VpCI-323

PRODUCT DESCRIPTION

VpCI-323 is a vapor phase corrosion inhibiting oil-based concentrate for use with working engine systems. VpCI-323 provides excellent protection in indoor and outdoor atmosphere conditions.

VpCI-323 protects in two unique ways. 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, Cortec VpCIs release vapor phase corrosion inhibitors into the air above the oil. These VpCIs attach electrochemically to the metal surface for additional corrosion protection.

FEATURES

- Metal-free
- Low viscosity
- Universal corrosion protection to ferrous and non-ferrous metals
- Does not contain hazardous chromates, nitrites or phosphate inhibitors
- High flash point
- Non-toxic and thermally stable, providing long-lasting contact and vapor phase corrosion inhibitors
- Will pass through a filter mesh size of 1 micron
- Protects metals in a corrosive gas environment (H₂S)

TYPICAL APPLICATIONS

Working engines:

Add VpCI-323 to oil at a ratio of 1 part VpCI-323 to 10 parts oil for 24 months protection.

Tanks, gearboxes, differentials - stored or shipped dry:

Fog cavity interior with VpCI-323 concentrate using 1 liter per 35 ft³ (1.1 m³) of enclosed space.

METHOD OF APPLICATION

- Fill reservoirs to 10% below full capacity.
- Add VpCI-323 to reservoir at determined dosage (>10% reservoir capacity).
- Cap reservoirs as usual.
- Run vehicle or equipment a minimum of 15 minutes to circulate oil thoroughly throughout system.
- The product should be sealed before storage. The shelf life of VpCI-323 is up to 24 months.

TYPICAL PROPERTIES

Appearance	Clear yellow to amber liquid
Corrosion Resistance	Up to 24 months
Coverage	1260-1370 ft ² /gal (31-34 m ² /l)
Film Thickness	0.5-1 mil (12.5-25 microns)
Film Type	Oily
Flash Point	>212°F (>100°C)
Non-volatile Content	91-97%
Odor	Petroleum
Removal Method	Petroleum solvents Cortec® alkaline cleaners
Density	7.7-7.9 lb/gal (0.92-0.95 kg/l)

METALS PROTECTED

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

PACKAGING AND STORAGE

VpCI-323 concentrate is available in 5 gallon (19 liter) plastic containers, 55 gallon (208 liter) metal drums, totes and bulk. VpCI-323 should be stored sealed. Shelf life is 24 months in sealed drums.



CORTEC
CORPORATION

Environmentally Safe VpCI™/MCI® Technologies

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

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