



### VpCI™ METALWORKING PRODUCTS

## **VCI-323 M**

#### **PRODUCT DESCRIPTION**

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

VCI-323 M protects in two unique ways. First, oilsoluble corrosion inhibitors offer a tenacious film which clings to metal surfaces, giving excellent contact corrosion protection. In addition to this film barrier, Cortec VCIs release vapor phase corrosion inhibitors into the air above the oil. These VCIs attach electrochemically to the metal surface for additional corrosion protection.

#### **FEATURES**

- Metal-free
- Low viscosity
- Universal corrosion protection to ferrous and nonferrous metals
- Does not contain hazardous chromates, nitrites or phosphate inhibitors
- High flash point
- Non-toxic and thermally stable, providing longlasting contact and vapor phase corrosion inhibitors
- Will pass through a filter mesh size of 1 micron
- Can be used in hydraulic applications
- Protects metals in a corrosive gas environment (H<sub>2</sub>S)

#### **TYPICAL APPLICATIONS**

Working engines:

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

Tanks, gearboxes, differentials - stored or shipped dry:

Fog cavity interior with VCI-323 M concentrate using 1 liter per 35 ft<sup>3</sup> (1.1 m<sup>3</sup>) of enclosed space.

#### TYPICAL PROPERTIES

Appearance Clear yellow to amber liquid

Corrosion Resistance Up to 24 months

Coverage 1260-1370 ft²/gal (31-34 m²/l) Film Thickness 0.5-1 mil (12.5-25 microns)

Film Type Oily

Flash Point  $>390^{\circ}F$  ( $>200^{\circ}C$ )

Non-volatile Content 92-98% Odor Petroleum

Removal Method Petroleum solvents

Cortec® alkaline cleaners

Density 7.4-7.6 lb/gal (0.89-0.91 kg/l)

#### **METALS PROTECTED**

- Carbon steel
- Stainless steel
- Galvanized steel
- Aluminum
- Brass

- Copper
- Cadmium
- Magnesium
- Silver
- Zinc

#### **PACKAGING AND STORAGE**

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



# 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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