

# VAPPRO®

VAPOUR CORROSION INHIBITOR

**Your Corrosion Solution**

## PRODUCT INFORMATION

### VAPPRO 853 Emulso

#### VCI SOLUBLE OIL

**Function:**  
Vapour Corrosion  
Inhibitor (VCI)

**Application:**  
Rust Control Coolant

**Form:**  
Liquid

## DESCRIPTION



Gray iron treated with V-853  
inside 100% Humidity Chamber

**VAPPRO 853** Emulso is specially developed to replace conventional oil rust preventatives.

It is diluted with water before application and produces a thin, transparent, tack-free corrosion inhibiting film, with excellent water displacement properties. **VAPPRO 853** Emulso protects in two unique ways. It provides a tenacious film which clings to metal surfaces, giving excellent contact protection and releases Vapour Corrosion Inhibitors that attach electrochemically to metal surfaces for additional corrosion protection. The combined action provides complete protection to internal systems of machined parts and components.

**VAPPRO 853** Emulso performs effectively even under the most adverse conditions of 100% relative humidity and in the presence of corrosive elements such as chlorides, sulfur compounds or hydrogen sulfide.

## FEATURES

- Protects both ferrous and non-ferrous metals
- Nitrite-free and does not contain hazardous chromates or heavy metals
- Protects in two unique ways – excellent contact barrier film and VCI protection
- Excellent water displacement properties
- Biodegradable
- Essentially non-toxic
- Environmental friendly
- Does not contain any ozone depleting substances
- Protects metals against corrosion in corrosive environment
- Economical – Dilute with water
- VCI phase provides protection to the internal system of machined parts
- Contains excellent anti-bacterial properties
- Can be fogged into metal compartment
- Specially developed to replace oils / solvent based rust preventative compounds
- Performs effectively at 100% relative humidity
- Protects ferrous and non-ferrous metals against chlorides, sulfur compounds or hydrogen sulfide

## APPLICATIONS

- Any machined metal parts, components or assembly between processing stages or in storage or shipping.
- To protect both ferrous and non-ferrous parts from corrosion or flash-rust during assembly, handling or shipping.

## DIRECTIONS FOR USE

- Dipping, spraying or flow coating, either concentrated or diluted.
- It can be diluted with water or solvent before application. Depending on the desired protection duration, **VAPPRO 853** Emulso may be diluted up to 100% with water.

Short-term Protection (1-6 months)	1 part <b>VAPPRO 853</b> to 20 parts water
Medium-term Protection (6-12 months)	1 part <b>VAPPRO 853</b> to 15 parts water
Long-term Protection (up to 2 years)	1 part <b>VAPPRO 853</b> to 9 parts water



Before dilution



After dilution of 1:20

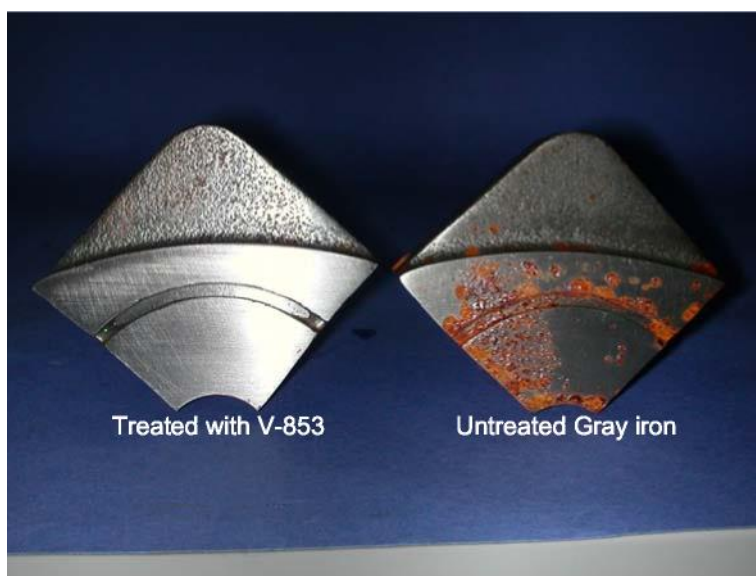
## METALS PROTECTED

- |                |                |                    |
|----------------|----------------|--------------------|
| • Carbon Steel | • Magnesium    | • Galvanized Steel |
| • Zinc         | • Aluminum     | • Tin              |
| • Brass        | • Cadmium      | • Copper           |
| • Cast Iron    | • Nickel       | • Pig Iron         |
| • Grey Iron    | • Ductile Iron |                    |

## PACKAGING

- 20 Liter Pail
- 200 Liter Drum

PHYSICAL PROPERTIES	
Appearance	Green, slight viscous liquid
pH	10
Flash Point coc ASIM D92	163°C
Copper Corrosion ASTM D130, 3 Hrs. at 100°C	1B
Pour Point ASTM D97	51°C
Specific Gravity ASTM D1298	0.92
Viscosity cst at 40°C	30



After 84 hours in 100% Humidity Chamber

#### North & South America



#### Warehouse Address

1450 Government Road West  
Kirkland Lake, Ontario P2N 2E9 Canada  
Tel: 416 479 9151 Fax: 888 317 1993  
Email: [magna@vapro.com](mailto:magna@vapro.com)  
[www.vapro.com](http://www.vapro.com)

#### Office Address

33 Blue Heron Drive  
Orangeville, Ontario L9W 5K5 Canada  
Tel: 416-479-9151  
Fax: 888-317-1993