



## VpCI™ FORMULATED PRODUCTS FOR PROCESS INDUSTRIES

gas oil  
brine

# VpCI-645



### PRODUCT DESCRIPTION

VpCI-645 is a unique, concentrated formulation that protects ferrous and non-ferrous metals from corrosive solutions containing chlorides. The product is designed to provide corrosion protection in fresh water, salt water, brine and other highly corrosive solutions containing dissolved halogens.

As a concentrated formulation, VpCI-645 offers low dosage effectiveness as a treatment for a wide variety of marine and process applications requiring economical corrosion inhibition for fresh and salt water.

VpCI-645 is effective as a replacement for nitrite- and chromate-based formulations and hydrazine-based oxygen scavengers. Being environmentally safe to use, VpCI-645 helps solve the problem of disposal, particularly for large quantities of water.

### FEATURES

- Provides effective corrosion protection against aggressive attack from high chloride solutions.
- Effective for a broad range of applications to stop aggressive corrosion from fresh and salt water, brine, chloride and other dissolved halogens.
- Biodegradable, environmentally friendly, nitrite- and amine-free.
- Low concentration effectiveness provides economical treatment.
- Multimetal protection.
- Readily water-soluble liquid for easy application. Solubility is not affected by pH range and salt concentration levels.

### TYPICAL APPLICATIONS

- Closed circuit cooling and heating systems containing brines or water.
- Desalination plants.
- Inhibitor for packer fluid applications.
- Prevents water-bottom corrosion in oil storage tanks and ballast tanks of ship and offshore platforms.
- Wet lay-up of boilers, pipelines, vessels, etc.
- Pulp and paper process equipment.

### METHOD OF APPLICATION

To provide corrosion inhibiting levels of above 95%, add VpCI-645 to:

#### *Cooling/Heating Systems:*

- 0.75% by volume when the concentration level of chlorides is 3% or more by weight.



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Environmentally Safe VpCI™/MCI® Technologies

## TYPICAL PROPERTIES

Appearance	Dark brown liquid
Density	10.0-10.4 lb/gal (1.20-1.25 kg/l)
Non-volatile Content	37-40%
pH	9.5-10.5 (Neat)

## PACKAGING AND STORAGE

VpCI-645 is available in 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk. The product should be stored in a tightly closed container. Shelf life is 12 months.

## 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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