



VpCI® FORMULATED PRODUCTS FOR PROCESS INDUSTRIES



# VpCI®-644



## PRODUCT DESCRIPTION

VpCI-644 is an additive that protects ferrous and non-ferrous metals from corrosion induced by waters containing inorganic salts, including chlorides. As a concentrated formulation, VpCI-644 offers low dosage effectiveness as a treatment for a wide variety of marine and process applications requiring economical corrosion inhibition for fresh water, salt water, and brine solutions. VpCI-644 contains organic ingredients and has strong film persistency abilities. VpCI-644 is effective as a replacement for formulations containing nitrites, phosphates, chromates or other heavy metals.

## FEATURES

- Prevents corrosion from fresh and salt water, brine, chloride, and other dissolved halogens of ferrous and non-ferrous metals.
- Nitrite/chromate/zinc/phosphate-free.
- Low concentration effectiveness provides economical treatment.
- Residual protection after hydrotest solution is drained out is 1 to 2 months.
- Effective in temperatures up to 200°F (98°C) in liquid and vapor phases.

## TYPICAL APPLICATIONS

Cooling/Heating Systems, Hydrotesting with Seawater: Add VpCI-644 at a concentration level of 0.2-0.3% by weight to brine, containing up to 5% of chlorides and other aggressive inorganic salts. Protection in liquid and vapor phases is greater than 95%.

## TYPICAL PROPERTIES

Appearance	Clear dark brown liquid
Solubility/Water	100%
pH	9.7-10.6 (1% solution)
Density	8.5-8.6 lb/gal (1.02-1.03 kg/l)
Non-volatile Content	27-32%

## PACKAGING AND STORAGE

VpCI-644 is packaged in 5 gallon (19 liter) containers, 55 gallon (208 liter) metal drums, liquid totes, or bulk. 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 SAFETY DATA SHEET FOR MORE**  
**INFORMATION**

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