



### 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<br>(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.

