



VpCI®-645



- Effective for a broad range of applications to stop aggressive corrosion from fresh and salt water, brine, chloride, and other dissolved halogens.
- 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.



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 a USDA certified biobased rust preventative. 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.

METHOD OF APPLICATION

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

Cooling/Heating Systems:

- 0.5-0.75% by volume when the concentration level of chlorides is 3% or more by weight.

Hydrostatic testing of pipeline, castings, tanks, and valves:

- 0.75-0.075% by volume, depends on required time of other action protection

HYDROTESTING

- 0.5-1% BY Volume in brine
- It is recommended to rinse the vessel after hydrotesting with fresh water containing 0.5% VpCI®-609 by weight



TYPICAL PROPERTIES

Appearance	Dark brown liquid
Density	10.0-10.5 lb/gal (1.20-1.26 kg/l)
Non-volatile Content	33-40
pH	11-12 (1% in water)

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 SAFETY DATA SHEET FOR MORE
INFORMATION**

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