



VpCI® FORMULATED PRODUCTS FOR PROCESS INDUSTRIES



VpCI®-645



- 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:

- 0.5-0.75% 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

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.



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

LIMITED WARRANTY

All statements, technical information and recommendations contained herein are based on tests Cortec Corporation believes to be reliable, but the accuracy or completeness thereof is not guaranteed.

Cortec Corporation warrants Cortec® products will be free from defects when shipped to customer. Cortec Corporation's obligation under this warranty shall be limited to replacement of product that proves to be defective. To obtain replacement product under this warranty, the customer must notify Cortec Corporation of the claimed defect within six months after shipment of product to customer. All freight charges for replacement products shall be paid by customer.

Cortec Corporation shall have no liability for any injury, loss or damage arising out of the use of or the inability to use the products.


BEFORE USING, USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR ITS INTENDED USE, AND USER ASSUMES ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH. No representation or recommendation not contained herein shall have any force or effect unless in a written document signed by an officer of Cortec Corporation.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. IN NO CASE SHALL CORTEC CORPORATION BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.



Distributed by:

4119 White Bear Parkway, St. Paul, MN 55110 USA
Phone (612) 429-1100, Fax (612) 429-1122
Toll Free (800) 4-CORTEC, E-mail info@corotecvci.com
Internet <http://www.corotecvci.com>

printed on recycled paper  100% post consumer
Revised: 8/13/13. ©Cortec Corporation 1996-2013. Supersedes: 3/23/11.
© 2013, Cortec Corporation. All Rights Reserved. Copying of these materials in any form without the written authorization of Cortec Corporation is strictly prohibited. ISO accreditation applies to Cortec's processes only.