



VpCI™ FORMULATED PRODUCTS FOR PROCESS INDUSTRIES

gas oil
brine

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. 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	9.5-10.5 (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.



CORTEC
CORPORATION

Environmentally Safe VpCI™/MCI® Technologies

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

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 (651) 429-1100, Fax (651) 429-1122
Toll Free (800) 4-CORTEC, E-mail info@cortecvc.com
Internet <http://www.cortecvc.com>

printed on recycled paper  10% post consumer

Revised 7/25/05. ©Cortec Corporation 1998-2005. All rights reserved. Supersedes: 10/30/98.

