



VpCI™ ADDITIVES FOR FORMULATORS

VpCI-647



PRODUCT DESCRIPTION

VpCI-647 is a complete corrosion and scale inhibitor liquid concentrate for use in open recirculating cooling water systems. The product is a combination of organic phosphorous compounds, polymers, aromatic azoles, and proprietary components.

The product provides both contact and vapor phase inhibition to protect ferrous and non-ferrous metals. Through solution contact, VpCI-647's physically adsorbed inhibiting layer prevents corrosion and pitting of directly contacted metal surfaces. At the same time, its vapor phase action prevents corrosion to parts not accessible by direct solution contact such as head spaces in standby systems. This unique product also incorporates an anti-scalant to maintain heat transfer efficiency.

VpCI-647 contains no chromates or other heavy metals. It is environmentally friendly for use without

sacrificing operational efficiency or economy. It offers effectiveness similar to the chromate treatment without the problems of fouling encountered in conventional non-chromate systems.

Low dosages provide superior effectiveness over an extremely broad range of waters, assuring economical use and easy control.

FEATURES

- Contains no chromates, heavy metals, or inorganic phosphates
- Eliminates costs for chromate reduction and sludge disposal
- Excellent corrosion protection and system cleanliness
- Protects ferrous and non-ferrous metals from corrosion and pitting
- Keeps system free from sludge and scale deposits
- Provides more efficient heat transfer
- Conserves water through reuse and higher cycles of concentration
- Liquid form for easy, direct application to system without premixing
- Reduces maintenance time and costs
- Simple and easy operator control by using a conventional test kit

TYPICAL APPLICATIONS

VpCI-647 provides complete corrosion and scale protection in an open loop cooling water system.

DOSAGE

The standard recommendation is 50 ppm.



TYPICAL PROPERTIES

Appearance	Clear amber liquid
Solubility/Water	100%
pH	10-11 (1% solution)
Density	10.2-10.3 lb/gal (1.22-1.23 kg/l)
Non-volatile Content	45-50%

PACKAGING AND STORAGE

VpCI-647 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 in heated warehouse to prevent freezing. Shelf life is 24 months.

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@cortecvci.com
Internet <http://www.cortecvci.com>

printed on recycled paper  10% post consumer

Revised 8/1/05. ©Cortec Corporation 1997-2005. All rights reserved. Supersedes: 10/30/98.

