



VCI FORMULATED PRODUCTS FOR PROCESS INDUSTRIES

gas oil
brine

VCI-639

PRODUCT DESCRIPTION

VCI-639 is designed to provide corrosion protection against the severe conditions encountered in petroleum production and refining. VCI-639 is effective for a wide range of refined hydrocarbons, crudes, and oil/water ratios. As a fast acting, long-term corrosion inhibitor, VCI-639 forms an effective, anti-corrosion barrier for metals in the presence of water, halogens and corrosive gases such as dissolved oxygen, sulfur dioxide, carbon dioxide and hydrogen sulfide.

Continuous protection between treatments is assured due to VCI-639's solubility, dispersibility in natural gas/water mixtures, and long-term water-displacing film formation. In addition, the product provides vapor phase inhibition to protect areas inaccessible through direct solution contact. This unique characteristic protects internal parts during low fluid levels and combats atmospheric corrosion in production and storage tanks.

The unique chemistry of VCI-639 allows this product to provide excellent protection in sweet/sour (low or high hydrogen sulfide concentrations) environments at a very low concentration. In addition, VCI-639 is very stable and will perform at elevated temperatures and in high-pressure environments without gunking. Temperature stability is maintained up to 400°F (204°C) and pressures up to 9,000 psi (621 bar) in sweet/sour systems. This product provides corrosion protection through the range of extreme service conditions encountered in natural gas applications.

FEATURES

- Effective for a wide range of refined hydrocarbons, crude and oil/water mixtures
- Forms an anti-corrosive barrier with film persistency to give continuous, long-term protection
- Effective against water intrusion, pitting and corrosive gases
- Vapor phase action provides protection against corrosion from atmospheric conditions for overhead units, production and storage tanks
- Can be used for a broad range of applications and requirements
- Liquid form for easy, direct application without premixing
- Post action inhibiting effect

TYPICAL APPLICATIONS

VCI-639 is designed for use in offshore equipment, wells, pipes, pipelines, refineries, tankers, production and storage tanks and chemical plants.

TYPICAL PROPERTIES

Appearance	Clear to slightly hazy dark brown liquid
Non-volatile Content	35-40%
Type	Solvent-based
Solubility (dispersible)	Crude oil, fresh water and brine
Protection Coefficient	93-99% (NACE TM-01-77)
Post Action Effect	Up to 60 days
Density	7.0-7.1 lb/gal (0.84-0.85 kg/l)



System	Corrosive Medium	Method of Application
Pipelines and collection systems for natural gas	CO ₂ – varying concentration H ₂ S – up to 6,000 mg/l	Continuous injection of the inhibitor
Natural gas wells and equipment	Natural gas with moisture encroachment and high concentrations of CO ₂ and H ₂ S	Injection of “as is” inhibitor

PACKAGING AND STORAGE

VCI-639 is available in 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk. Product should be stored in tightly closed container. Shelf life is 36 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.



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>

Distributed by:



OTiK Sp. z o.o.
ul. Hutnicza 4
81-061 Gdynia
tel.: 58 6230498
fax: 58 6230496
otik@use.pl
www.inhibitory.use.pl

printed on recycled paper 10% post consumer

Revised 10/6/00. Cortec Corporation 2000. All rights reserved. Supersedes: 4/23/98.



Certificate No. 70781