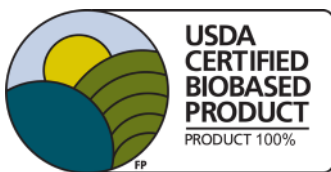


EcoClean® Biodegradable Scale and Rust Remover Powered by Nano VpCI®



PRODUCT DESCRIPTION

EcoClean® Scale Remover is a heavy duty biodegradable scale and rust remover. It is one of the fastest acting products on the market for dissolving heavy scale, corrosion, and naturally occurring oxides off metals. It is effective and safe to use on iron, carbon steel, stainless steel, copper, aluminum, magnesium, and their alloys. Powerful corrosion inhibitors contained in the scale remover protect treated metals from flash rust. EcoClean® Scale Remover is simple to use and non-toxic, providing one safe remover for all your descaling and de-rusting needs.

EcoClean® Scale Remover is awarded with a USDA Certified Bio-based Label (USDA#5564). It is easily biodegradable.

FEATURES

- Fast-acting scale remover
- Also functions as a corrosion remover
- Contains powerful corrosion inhibitor to prevent flash rust
- Safe on iron, carbon steel, stainless steel, copper, aluminum, magnesium, and their alloys
- Improves flow in water pipes or drainage pipes obstructed by

scale

- Improves heat-transfer efficiency on all heat-exchanger equipment by creating clean surfaces
- Effective in hard-to-reach areas, eliminating costly equipment dismantling
- Biodegradable
- Labor saving
- Easy and safe to dispose
- Reduces cost of surface preparations
- Available in innovative water-soluble pouch form for circulating systems
- Also available in easy-to-ship powder form and ready-to-use liquid form

TYPICAL APPLICATION

- Safe scale removal on all water-contacting equipment surfaces including heat-exchangers, chillers, condensers, cooling tower, and pipes
- Safe multi-metals rust removal

COMPATIBLE METALS

- Iron
- Carbon Steel
- Stainless Steel
- Copper
- Aluminum
- Magnesium
- Various Alloys

METHODS OF APPLICATION

For water-soluble pouch form, use one pouch for every 4 gallons of water. Simply throw the pouch in the water. It will dissolve upon entering water and release the scale remover inside. It is particularly convenient for systems where water circulates, as in many heat-exchanger or pipe systems.

For powder form, add 7% (by weight) in water.

For ready-to-use liquid form, add 1 part product to 2 parts water.



TYPICAL PROPERTIES

Pouch

Appearance	Clear plastic pouch containing light yellow powder (size 6" x 10")
Weight per pouch	2.2 lbs (1.0 kg)
pH (7% aqueous)	2.0-3.0
Non-volatile content	95-100%

Powder

Appearance	Light yellow powder
pH (7% aqueous)	2.0-3.0
Non-volatile content	95-100%

Liquid

Appearance	Yellow to tan liquid, hazy
pH (neat)	1.5-2.5
Density	9.2-9.6 lb/gal (1.1-1.2 kg/L)

PACKAGING AND STORAGE

EcoClean® Scale Remover water soluble pouch is available in 2.2 lb bags, 4 bags per carton.

EcoClean® Scale Remover powder is available in 5 lb (2.3 kg), 50 lb (22.7 kg), and 100 lb (45.4 kg) bags.

EcoClean® Scale Remover liquid is available in 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes, and bulk.

Minimum storage temperature: 32°F (0°C)

Maximum storage temperature: 120°F (49°C)

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

TOXICOLOGY TESTING RESULTS

Test Species	NOEC*/LOEC** ppm	48 h LC50***
D. pulex	100/1000	316
P. promelas	100/1000	316
M. berylina	100/1000	316
M. bahia	100/1000	316

*NOEC - No Observed Effect Concentration

**LOEC - Lowest Observed Effect Concentration

*** LC 50 - Lethal Concentration that kills 50% of the test animals

STANDARD TEST METHODS

SM 5210 B-01	5210 Biochemical Oxygen Demand (BOD)
SM 5220D-97	5220 Chemical Oxygen Demand (COD)
ASTM D6866-16 Method B(AMS)	Standard Test Methods for Determining the Biobased Content of Solid, Liquid, and Gaseous Samples Using Radiocarbon Analysis
EPA 821-R-02-012: Section 9 Method 2021	Cladoceran, Daphnia pulex Acute Static Renewal 48 – Hour Definitive Test
EPA 821-R-02-012: Section 9 Method 2000	Fathead Minnow, Pimephales promelas Acute Static-Renewal 96 – Hour Definitive Test

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

Printed on recycled paper  100% post consumer

Revised: 12/28/16. ©Cortec Corporation 2002-2016 of Cortec Corporation.
All Rights Reserved. Copying of these materials in any form without the written authorization of Cortec Corporation is strictly prohibited. 2016, ©Cortec Corp. ISO accreditation applies to Cortec's processes only.

Distributed by: