

# REBA

## FUTURECLEAN RUST REMOVER

NON CORROSIVE RUST REMOVER

- Non-Corrosive
- 100% Synthetic Acid Replacement
- Does not dissociate hydrogen
- Non-Fuming
- Non-D.O.T. Regulated
- 100% Biodegradable
- Removes tea staining corrosion from stainless steels
- Removes cement and concrete residues
- Safe on Glass, Tiles & Metal
- OSHA and EPA Compliant
- Safe on Skin

FutureClean Rust Remover is a non-corrosive, non-skin irritant, and biodegradable cleaner capable of working better or more effectively as traditional acids for the removal of rust from metallic surfaces.

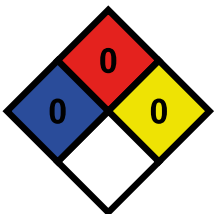
Powered by SynTech®, the world's only synthetic acid, FutureClean Rust Remover earns a triple zero HMIS score. Its unmatched safety profile earns the recommendation of US EPA Design for Environment Programme (DfE).

And because FutureClean Rust Remover contains no acid and is non-corrosive, it can be applied to any kind of equipment. It is so safe it can even be left on overnight to loosen the heaviest rust, mineral or calcium build up.

Any cleaning of rust from metal surfaces that once required the use of dangerous, toxic, acids can now be safely done with FutureClean Rust Remover. And because it is non corrosive, no neutralizing step with an alkali is required. Simply rinse with water to remove & neutralise.

FutureClean Rust Remover is non-D.O.T. regulated, and is readily biodegradable per OECD 301D. FutureClean Rust Remover is non-fuming, will not corrode or rust metals, and is 100% OSHA and EPA compliant.

FutureClean SynTech based chemistry has been recognized for safer chemistry by the EPA's Design for Environment program and is certified as a direct release product.



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## Packaging Options

FutureClean Rust Remover is available in 5L, 20L or 200L drums. For high volume applications, a 1,000L Industrial Bulk Container is also available upon request.

## Technical Data

NITRATE LEVEL: 0% - None	SHIPPER REGULATIONS: None
FORM: Liquid	FLASH POINT: None
ODOR: Mild Soapy Odour	BOILING POINT: 214° F
COLD STABILITY: -26° F	SOLUBILITY IN WATER: 100%
DETERGENCY: Moderate	BIODEGRADABLE: Yes/100%
TOXICITY: Non Toxic	VOLATILE BY VOLUME: N/A
WETTING ABILITY: Excellent	CARCINOGENS: None
STORAGE STABILITY: 1 Year+	VISCOSITY: Thin
pH: < 1.0	

## SYNTECH Classifications & Approvals

D.O.T., TDG, IMO, IATA, IMDG, SARA 313 311/312, California Prop 65 NON-Regulated

FDA Approved as Safe (GRAS)

USDA Authorization A1, A2, A3, A4, A7, A8, C2, G6 & G7

Additional Studies & Results: When tested, FutureClean showed no potential for the generation of Carbon Dioxide under NIOSH 7903, OSHA & ACGIH testing protocols governing workplace environments.

### EPA Design for Environment

SynTech Chemistry is recognized for Safer Chemistry [www.epa.gov/dfe](http://www.epa.gov/dfe)

### Marine approvals:

- Marinfloc Approved OWS Compatible
- IMO approved in accordance with MEPC 590
- OCNS registered, 25423, for Offshore applications

## Metal Studies

Dept. of Transportation (D.O.T.) Test Protocols as per Section 173.154 Exceptions for Class 8 (corrosive materials): The material being tested must be proven to be non-destructive or not to cause irreversible alterations in human skin tissue. Testing was conducted on an albino rabbit.

**Conclusion:** FutureClean Rust Remover was proven to be NON-DESTRUCTIVE on human skin tissue.

**Metal Test Limits:** D.O.T. Classifies a material to be CORROSIVE if it has a corrosion rate that exceeds 6.25 mmpy on SAE C1020 carbon steel.

Results of FutureClean Rust Remover: SAE 1020 carbon steel = 0.59 mmpy

**Conclusion:** FutureClean Rust Remover is NON-CORROSIVE

## Directions for Use

FutureClean Rust Remover can safely be used to remove rust or rust stains. The product can be used on any materials or coatings. It is commonly applied on the surface by a brush or by spraying. The solution can range from 10 - 50 % and is left to react for 15 - 20 minutes, after which the cleaned items are rinsed off with water and a brush. Small parts can be soaked in a prepared solution.

FutureClean Rust Remover can be used neat or diluted on:


- Ferrous and non-ferrous metals, except zinc
- Coatings
- Plastics
- Synthetic and natural rubber

## Dilution Ratio

Light rust	1:10
Moderate to severe rust	1:5 to 1:3

## Dissolving Properties

Calcium Oxide Dissolving Properties with 3 Minute Exposure shows FutureClean Rust Remover is more powerful than Hydrochloric Acid.

Acid	% Dissolved
	16.9
HCl (Muriatic Acid)	8.9
Sulphamic Acid	1.6
Formic Acid	0.7
Oxalic Acid	0.0
Malic Acid	0.4

### Test Conditions

200 grams of 5% active solution; 1 Calcium Oxide Cube; 3 Minutes @ 70° F

Clearly, FutureClean Rust Remover out performs other acids when it comes to dissolving calcium oxide, including HCl (Muriatic) which is highly corrosive.

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