



TECHNICAL DATASHEET

PRODUCT NAME – RUST-X Rust Remover

PRODUCT CODE – Neutrasafe Powder

PRODUCT DESCRIPTION

Neutrasafe as the name implies is a Neutral & Safe Neutral pH rust remover. Neutrasafe works by selectively attacking the rust present on the surface of the metal and removing it into the solution of the rust remover. The product works in cavities, crevices and volutes and safely removes corrosion within seconds.

There is no reaction of the Neutrasafe chemical with the metal and hence no tarnishing or color change of the metal surface.

Generic rust removers are formulated with very strong acids having pH of 1.0 to 2.0 whereas Neutrasafe has a pH of 6 which is the same pH as of human skin. It is safe to work with limited personal protection equipment. Neutrasafe has also got the advantage that the re-rusting is minimized due to the absence of strong acids.

There is also no change in the dimensions of the product when the rust is removed. The product can be used again and again and does not need to be replaced but only topped up in the tank.

The product can be used on various steels, cast iron, copper & aluminum or any other metal upon trials.

The product can be used for cleaning process equipment, automotive parts, engine components, domestic household equipment, aerospace components, electronic and electricals etc. There is also no change in the dimensions of the product when the rust is removed. The product can be used again and again and does not need to be replaced but only topped up in the tank. The product can be used on various steels, cast iron, copper & aluminum or any other metal upon trials.

All RUST-X rust preventive oils are Barium & Heavy Metal Free.

FEATURES

- Quick action
- Easy to use
- Safe product with neutral pH
- No fumes generated
- No effect on environment and can be easily disposed off
- User friendly
- Does not cause staining of the surface



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- Does not affect paints
- Can affect plating so should be duly trialed
- Multi-metal rust remover
- Removes rust or tarnishing from Copper, Brass, steel, aluminum
- Environment Friendly

USAGE

Small Parts:

If a part can be is small, it should be dipped in the solution and checked for removal of rust. Flash rust or fresh rust will be removed within seconds. A few months old rust will take a few minutes. Very heavily rusted components which have rusted over much longer durations may have to be dipped for longer time period.

For large parts:

Apply solution with a brush, spray or sponge on the rusted surface. Some scrubbing with scotch brite may be required to loosen up the rust. Also powder at higher concentration may also be used for larger parts.

Procedure for solution preparation for part dipping:

- Take Plastic Barrel or tank containing 200 Ltr of Water and add 10 kg Neutrasafe powder.
- For optimum results the Neutrasafe concentration in water should 5% for dipping of parts or can be higher up to 30% in case of brushing or scrubbing.

- Stir till the powder mixes completely forming a clear solution.
- In some cases where the outside temperature is very low, some heating of water to 30-40 degrees may be required.
- The solution needs to be maintained indoors at 20-30 C for optimum reaction speed.
- Add more solution as required when the level reduces in the tank or barrel

Procedure for paste preparation for direct application:

- Take powder in a small container
- Add 10-20% water to turn the solution to a paste
- Apply this on rusted surfaces and rub a little to initiate reaction and let the paste reach below the rust layer due to scrubbing
- The rust will get converted slowly and the paste can be wiped of with a wet cloth

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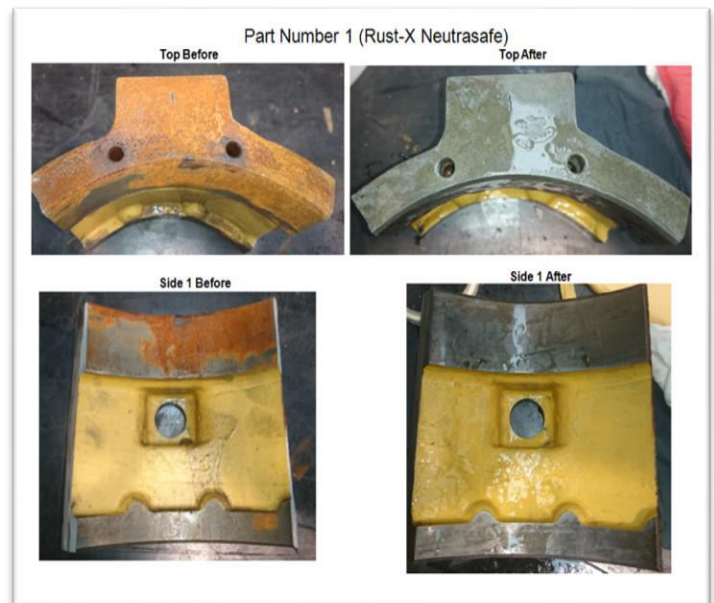
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- The rust will get converted slowly and the paste can be wiped off with a wet cloth

TECHNICAL SPECIFICATION

Physical Properties	Test Method	Value
Colour	Visual	White powder
Specific Gravity	ASTM D 1298	0.3-0.4
Solubility	ASTM D 92	Up to 10%
pH: @ 5%		5.5-6

Part dipped in 5% Neutrasafe Powder Solution



APPLICATION PICTURES



Parts Rubbed with VCI Powder



USA - 14310 California
 info@rustxusa.com
 Italy | France | India | China | Mexico





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DISPOSAL

Recommendation: Do not allow product to reach sewage system.

Disposal of product or waste must comply with official local regulations.

Packaging that cannot be recycled must be disposed in the same manner as the product.

PACKAGING AND STORAGE

Store in a cool dry place and always keep rust remover sealed when not in use.

HEAVY METALS DECLARATION

RUST-X Rust Preventive products do not contain Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent Chromium (Cr6), Polybrominated biphenyls (PBB), or Polybrominated di-phenylether complying with the restricted substances listed in Article 4(1) of the RoHS Directive. RUST-X Rust Preventive Oils are also REACH Compliant for exports to the European Union.

SAFETY INFORMATION

- Keep Out Of Reach Of Children
- Keep Container Tightly Closed
- Not For Internal Consumption

- Consult Material Safety Data Sheet For More Information
- Safe for people
- This product does not pose a health hazard to users due to its classification as an article according to EU REACH, UN GHS, US OSHA HazCom and CA WHMIS regulations.
- Rust-X VCI chemistry is safe for sensitive electronics.
- Rust-X VCI chemistry imposes No galvanic effects, residues or changes in the properties of metals. The protective molecules dissipate upon opening of package.

DECLARATION

This Data sheet and information it contains is considered to be accurate at the date of printing. No representation or warranty, expressed or implied is made as to the accuracy or completeness of the data and information contained in this publication. It is the User's obligation to evaluate and use products safely and within the scope advised in the data sheet and to comply with all applicable laws and regulations.

LIMITED WARRANTY

All statements, technical information and recommendations contained herein are based on validations and tests conducted by HI TECH INTERNATIONAL/RUST-X or its partners and are believed to be reliable, but the accuracy or completeness thereof is not guaranteed. We warrant our products will be free



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from defects when shipped to customer. Our 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 Rust-X, Hi Tech International or its partners or agent of the claimed defect within 3 months after shipment of product to customer. Customer shall pay all freight charges for replacement products. We shall have no liability for any injury, loss or damage arising out of the use of or the inability to use the products. And any financial claims shall be limited to the value of the film sold.

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 the company. 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 HI TECH INTERNATIONAL/RUST-X be liable for incidental or consequential damages.

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