



## TECHNICAL DATASHEET

### PRODUCT NAME – RUST-X Rust Remover

### PRODUCT CODE – Neutrasafe Jelly

#### PRODUCT DESCRIPTION

Neutrasafe jelly is the thick non flow type product and can be applied on vertical surfaces or on large parts which cannot be dipped in Neutrasafe liquid tank or solution. It 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 5.5 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.

All RUST-X VCI Jelly is 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
- 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

#### APPLICATIONS

Clean the area to be protected using a cloth or RUST-X 40 spray.



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Apply the Neutrasafe Jelly with a brush on the area to be protected. Ensure that all the area gets covered evenly with the jelly.

Best method would be to brush or hand applies the jelly on rusted surface of the part. In some cases rubbing with a scrub pad may also be beneficial.

Once the rust is removed, the part may be rinsed with water and then cleaned with a cloth and applied with a rust preventive. Alternatively, for long term storage, the part may be neutralized using a neutralizer to deactivate the surface and then apply rust preventive oil.

Use of gloves while handling the components as well as immediate packaging is important. In case the components have oil film, some cleaning with solvent or alkaline may be required to allow neutrasafe solution contact with the metal surface.

#### 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.

#### TECHNICAL SPECIFICATION

Physical Properties	Test Method	Value
Colour	Visual	Transparent like water
Specific Gravity	ASTM D 1298	0.3 - 0.4
Solubility		1
pH:		5.5 - 6
Appearance		Jelly type
Volatiles by % (by weight)		None
Pour point		Below 0° C
Coverage (sqm / Lt)		2-3

#### 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.



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### APPLICATION PICTURES



Chromium (Cr6), Polybrominated biphenyls (PBB), or Polybrominated di-phenylether complying with the re-stricted 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.

### PACKAGING AND STORAGE

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

### HEAVY METALS DECLARATION

RUST-X Rust Preventive products do not contain Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent

### 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



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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 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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