

**RUST-X USA**

# Technical Datasheet

Product: RUST Remover Powder  
Grade: Neutra Safe Powder

TDS No. 400025

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### 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.

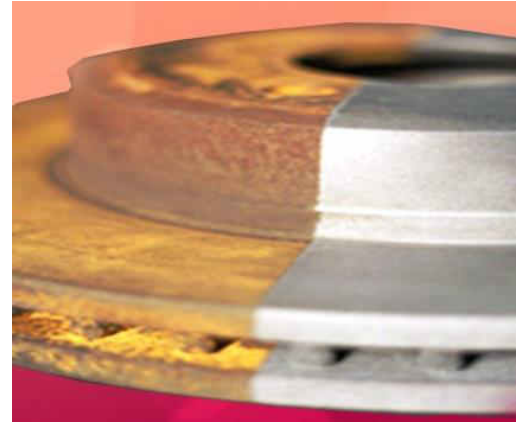
There is no reaction of the Neutrasafe chemical with the metal and hence no tarnishing or color change of the metal surface.

Generic rust removers are formulated with very strong acids having pH of 1.0 to 2.0 where as 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.

### Product & Application Images



### Suitable For

- Multi-metal rust remover
- Removes rust or tarnishing from Copper, Brass, steel, aluminum

### Features

- Quick action
- Easy to use
- Easy to store
- 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

### Application Method

Dipping by far is the best method for application. The Neutrasafe can also be applied by using Mist Spray, brush or sponge provided all the surfaces of the part are wetted with Neutrasafe solution. 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. Rust-X offers neutralizing & cleaning solution AquaFlush 03.

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.

### Properties

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

### Procedure for solution preparation:

- 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 Use

#### 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.

### Packaging

Available in KG

### Disposal

Wastes should be disposed off in accordance with local regulations.

**Recommendation:** Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

Packaging that may not be cleansed must be disposed off in the same manner as the product.

### Safety Information

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

Do not inhale powder wear gloves, safety goggles & breathing apparatus when using the products.

### 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

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