



## TECHNICAL DATASHEET

## PRODUCT NAME – RUST-X Rust Remover

### PRODUCT CODE – RR 500

### PRODUCT DESCRIPTION

Rusting is the biggest evil for the steel or automotive component industry. Hi-Tech Internationals proprietary rust converters, help in the recovery of metal by converting the rust back to steel. Rusted components can be retained back by the process of rust removers, then neutralization and finally applying rust preventive oils.

RUST REMOVER 500 is a liquid acid-based product primarily designed to simultaneously clean and remove rust from steel and iron parts. It is single component modified acid with different additive base rust removal. It has uses for removal of rust and prepares the substrate for painting.

Quickly removes rust and corrosion from steel, cast iron and other ferrous metals. Does not harm nonferrous metals such as aluminum, copper or brass and is also safe on rubber and plastics. Quickly penetrates into crevices and metal pores due to special wetting agents so that all rust and corrosion is reached.

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

### FEATURES

- Acidic
- Ready to use easily
- Good coverage due to low viscosity- high floatability & high penetration properties
- Quickly removes rust and other oxides from metal surfaces
- Can be used in immersion and hand-wipe applications
- Allow 2-10 minutes drain and drying time depending upon product requirement
- Non Sticky washable film

### TECHNICAL SPECIFICATION

Physical	Test Method	Value
Colour	Visual	Clear
Viscosity @ cSt @ 15°C	ASTM D 445	-1.40 - 1.60
Water soluble		Yes
pH		1-3

### APPLICATIONS

- Carbon Steel
- Stainless Steel
- Cast Iron
- Galvanized Steel
- Brass (<30% Zn)
- Copper



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### USAGE

Dipping by far is the best method for establishing an even layer on the component.

Other methods may be used such as mist spraying, electrostatic spraying, brushing, automatic conveyor spray or dip process spray. It is important that the complete surface of the component is coated with the RR 500.

Use of gloves while handling the components as well as immediate packaging is important. In case the components carry cutting oils or water from previous processes, dewatering with CL005 is recommended.

### PACKAGING AND STORAGE

Store in a cool dry place and always keep RR500 sealed when not in use.

### 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.

### APPLICATION PICTURES



Rusted Part



Dipped for removal



Neutralized by NN 500



Rust Free after 3-15 minutes

### 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 re-stricted substances listed in Article 4(1) of the





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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 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



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no case shall HI TECH INTERNATIONAL/RUST-X be liable for incidental or consequential damages.

### GLOBAL SUPPORT

Algeria Angola Argentina Australia Austria Bangladesh Belarus Belgium Bhutan Bolivia Brazil Canada Chile China Colombia Czech Republic Democratic Republic of the Congo Denmark Ecuador Estonia Finland France Gabon Germany Hungary India Indonesia Ireland Italy Japan Kazakhstan Korea Latvia Lithuania Luxembourg Malaysia Mexico Monaco Morocco Nepal Netherlands Nigeria Norway Peru Philippines Poland Portugal Republic of Congo Romania Russia Singapore Slovak Republic Slovenia South Africa Spain Sri Lanka Sweden Switzerland Taiwan Thailand Tunisia Turkey Ukraine United Arab Emirates and MENA (Middle East & North Africa) United Kingdom United States Uruguay Vietnam



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