



## TECHNICAL DATASHEET

## PRODUCT NAME – VCI RUST PREVENTIVE ADDITIVE

### PRODUCT CODE – VCI 4500 for Aqueous System

### PRODUCT DESCRIPTION

Water may be part of various processes such as Leak Testing, Metal Working Fluids, Quenching, Heat Treatment, Washing, etc. Remnants of water may cause corrosion of metal.

VCI 4500 is a water soluble rust preventive agent which can be added to water between 0.5%-5% concentration depending upon the usage for prevention of corrosion on metallic parts and period of life.

This can be used as a leak testing additive, can be added to re-circulate cooling water, boilers, heat exchangers, cutting oil tanks and any other water systems to avoid corrosion caused by water. This can also be added to pipelines during layup and makes the water work as a rust preventive.

The product can be easily tested by adding 5% in water and keeping a metal part submerged in this water and comparing to another beaker with a similar metal part submerged but without VCI 4500.

Within 2-3 hours the results can be seen and the metal part in water having 2-5% VCI 4500 concentration will never rust even for months compared to the one submerged in normal water.

The product is suitable for tap water, distilled water, RO water.

Suitable only for ferrous metals.

### ADVANTAGES

- Easy to use
- Environmentally friendly
- Provides long term corrosion inhibition
- Free from nitrites and nitrates

### APPLICATIONS

- Suitable for closed pipelines and cooling systems
- Inhibitor for hydrostatic testing of pipelines, casings, tanks, and valves
- Inhibitor for packer fluid applications
- Corrosion protection in Paper industry water cooling and heating pipelines
- Mines, mining, and earth moving equipment
- Vapor Corrosion Inhibitor for plant lay-up application of cooling towers
- Leak testing and hydro testing additive
- Choke and Kill Manifolds corrosion prevention inside the pipeline

### FEATURES

- Readily soluble in water
- Environmentally friendly



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- Provides long term corrosion inhibition
- Free from Nitrites & phosphates
- Nontoxic to aquatic organisms at low concentrations
- Free from secondary amines

### USAGE

Dissolve the VCI 4500 in water to convert the water into a rust preventive agent.

### APPLICATION PICTURES



### TECHNICAL DATA SHEET

Physical Properties	Value
Color	Transparent
Flash Point	300°C
Odor	None
Solubility	100%
Emulsion Color	Transparent
Viscosity	15-20 cSt
Pour Point	4°C
pH	9-10
Reactivity with Rubber	None
Reactivity with PVC	None
Reactivity with Glycol	None
Effect on Carbon	None
Cleaning before painting required	None



### PACKAGING AND STORAGE

Store in a cool dry place and always keep away from direct sunlight. Available in 20 ltr, 25 ltr and 210 ltr packaging. Shelf life is up to 24 months

### DISPOSAL

Recommendation: Do not allow product to reach sewage system.

Disposal of product or waste must comply with official



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local regulations.

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

#### 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.
- The protective molecules dissipate upon opening of package.

#### 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-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.

#### 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





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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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