



TECHNICAL DATASHEET

PRODUCT NAME – VCI LIQUID

PRODUCT CODE – VCI 4209

PRODUCT DESCRIPTION

VCI 4209 is a multi-metal & multi-modal acting inhibitor used for the protection process equipment, steel tubes, steel structures, storage tanks as well as steel structural foundations.

This can be used in a multiple ways to protect corrosion:

1. Spread as liquid on concrete to protect Re-bar
2. Can be mixed with Concrete to protect from corrosion @ 1% in concrete admixture
3. Sprayed on equipment inside or outside and upon drying forms a corrosion inhibiting powdery layer @ 5-10% concentration
4. Dosed into liquid/water pipelines that require protection after filling pipes with water
5. Can be injected under the tank bottoms in its pure form

The VCI 4209 has multiple acting modes and works in contact phase, vapour phase as well as in an aqueous solution and protects metal. The VCI 4209 is a multi-metal corrosion inhibitor and protects steel, aluminum, copper, brass, zinc and all kinds of metals. The VCI 4209 uses SMP technology for speedy moisture passivation, as it is a combination of fast and slow evaporating inhibitors. This gives instant protection to the metal from the fast evaporating

VCI as well as long-term protection due to moderate and slow evaporating VCI combination.

APPLICATIONS

- For Surface Coating on Equipment @ 5% in water
- Spray using a mist sprayer or a splash sprayer
- Can be applied with a brush on the surfaces to be protected @5-10% in water
- Fill up empty tanks or pipes with water @ 2-5% depending upon the longevity of protection required
- Add to concrete mixture @ 1 percent to make it corrosion inhibiting for rebar
- Can be injected in tank bottoms as a pure solution

FEATURES

- Protects a wide range of multi-metals from copper, lead, tin, ferrous, zinc plating etc.
- Easy & safe to handle and use.
- Easily removable
- Environmentally friendly.
- Free from hazardous chemicals such as nitrites, phosphates, silicates etc.
- Multi modal action of inhibition by contact, in solution or by vapor inhibition.
- 15 Years protection in enclosed conditions for internal empty tanks and pipes.



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USAGE

Stir well the solution before use as and liquid may have been separated before use

- Bottom plate protection of above-ground petroleum storage tanks
- Tubular structures, pipes and vessels
- Internal surfaces of compressors, turbines, engines, tanks, boilers and heat exchangers
- Dry lay-up of closed circuit cooling systems
- Equipment protection after hydrostatic testing
- Cavities and void spaces on ships, barges, offshore platforms, sewage plants, dams, etc.

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 local regulations.

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

TECHNICAL SPECIFICATION

Property	Value
Bulk Density	1100 kg/m ³
Color	Transparent Liquid
Solubility	100% in water
pH in water	7-9
Effective Dosage in water for protection	2-5%
Nitrite Free	Yes
Vapor Pressure	>1X10 ⁻⁴ mm HG
Solid Content	30%

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



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(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 RoHS Directive. RUST-X Rust Preventive Oils are also REACH Compliant for exports to the European Union.



APPLICATION PICTURES



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





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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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