



## TECHNICAL DATASHEET

**PRODUCT NAME – RUST-X RP oil**

**PRODUCT CODE – VCI 145 A Ex Dry**

### PRODUCT DESCRIPTION

RUSTX oils have chemicals that give higher, faster and longer duration of protection to the steel mills, tubes or sheets, metallic components from saline atmospheres during sea transportation as well as long term storage.

RUSTX oils contain VCI chemicals, which work in contact phase as well as in the vapor phase and protect components by its dual action.

RUSTX – 145A EX Dry is a light grade of rust preventive oil, which provides a dry rust preventive coating on the parts.

The product has a high flash point and can be used for protection of Cold Rolled Steel, Engine Components, as well as large equipment where indoor open storages are required.

The VCI action of the oil makes it suitable for spraying within hollow equipment such as boilers, heat exchangers, reactors, storage tanks, pipes etc. The VCI fraction evaporates and reaches hard to reach surfaces where the direct oil spray cannot reach and protects the equipment from corrosion.

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

### FEATURES

- Lubricating to touch
- Spray able rust preventive oil
- Can be heated and used as electrostatic spray in steel mills
- Thixotropic properties
- Allow 2-10 minutes drain.
- Does not contaminate cutting fluids
- Excellent protection against acidic and saline environments
- Excellent Dewatering & Degreasing Properties
- Non Sticky washable film
- Engine Oil & Gear Oil Compatible
- Fumeless upon welding
- No soot deposits on metal parts

### APPLICATIONS

- Machined Steel Components which require slight lubricating film as well as longer protection and multiple handling
- Castings gears, axles, crank shafts
- Forgings
- CR sheets
- Bearings, Gears
- Transmission Components
- Axles, Process Equipment



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- Flanges
- Valves etc.

### TECHNICAL SPECIFICATION

Physical Properties	Test Method	Value
Color	Visual	Amber Clear
Viscosity @ cSt @ 40°C	ASTM D 445	2~4 cSt
Specific Gravity	ASTM D 1298	0.7 - 0.83
Flash Point (before application)	ASTM D 92	100 °C
Flash Point (after application)	ASTM D 92	<220 °C
Volatiles by % (by weight)		90 %
Coverage (sq m/ Lt)		<100
Film thickness	IS 2074	0.75 Microns
Pour Point	ASTM D 97	Below -5°C
Sapomnification		5.0-7.0
Salt Spray Protection	ASTM B 117	< 48 hours
Salt Spray in VCI Packaging	ASTM B 117	500 hours +
Humidity Chamber	ASTM D 1748	720 hours +
Indoor Protection Life (open)		2 months
Indoor protection life (packed)		2 years
Packaged Protection Life (In VCI Packaging)		Up to 5 Years

surface of the component is coated with the rust preventive oil.

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 can be used to completely remove the oil or water base cleaner AQ03 can also be used to remove the oil.

### APPLICATION PICTURES



### 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 pray. It is important that the complete



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### PACKAGING AND STORAGE

Store in a cool dry place and always keep RPO 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.

### 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 diphenylether 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.

### 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



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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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