

**RUST-X USA**

# Technical Datasheet

Product: RUST Preventive Additive  
Grade: 4500 – Ex

TDS No. 400051

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### Product Description

Exports of automotive components is a very critical task which requires specialized Rust Preventive Packaging schemes in synergism with highly effective rust preventive oils.

RPA 4500 is an economical, effective and environmentally friendly corrosion inhibitor liquid for addition in water based systems including leak testing tanks, cleaning systems, degreasing systems as well as cutting oils. This provides excellent corrosion prevention to ferrous metals in contact as well as vapour phase.

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.

### Product & Application Images



### Suitable For

Machined Steel Components, Castings, Forgings, CR sheets, Bearings, Gears, Transmission Components, Axles, Process Equipment, Flanges, Valves etc.

### Features

- Transparent in water
- Does not leave white powder residue on the component after drying
- Economical to use as it works at low dosages
- Environmentally friendly
- Efficient at low dosages 3% - 5%
- Protects Steel, Cast Iron, Lead, Copper, Bronze
- Prevents chemical plant & equipments from long term degradation Safe for human contact
- Does not degrade. Addition required only with fresh water
- Can also be used @ 10-15 % concentration as a water based rust preventive.

### Application Method

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 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 is recommended.

### Properties

Physical Properties	Test Method	Value
Colour	Visual	Amber Clear
Viscosity @ cSt @ 40°C	ASTM D 445	<10 cSt
Specific Gravity	ASTM D 1298	0.8 - 0.9
Dry Film Thickness	IS 2074	1-2 micron
Flash Point (Before application)	ASTM D 92	100 °C
Volatiles by % (by weight)		<5%
pH		9-11

### Corrosion Prevention Properties

Salt Spray Protection	ASTM B 117	<48 hours
Salth Spray in VCI Packaging	ASTM B 117	720 hours
Humidity Chamber	ASTM D 1748	720 hours +
Indoor Protection Life (open)		6 months
Indoor protection life (packed)		2 years
Condensation Test	DIN 50017 KFW	> 60 cycles

### Packaging

26 Liters Can & 210 Liters Barrel

### 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 Oils 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 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

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