PRODUCT NAME – RUST-X RP oil

PRODUCT CODE – VCI 135 C Ex ODL

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.

RUSTX-EX Export Grade oils have chemicals that give higher, faster and longer duration of protection to the 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 135 series oils contain VCI chemicals which work in contact phase as well as in the vapour phase and protect components by its dual action. RUSTX – 135 C ODL is a light odorless grade of rust preventive oil, which provides rust preventive coating on the parts. The oil is completely odorless. 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 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
- Very light oil film - dry feel
- No smell.
- Good coverage due to low viscosity-high floatability & high penetration properties
- Less consumption due to thin film
- Quick Drying - Dries within 5-6 minutes
- Adds gloss to metal
- Excellent protection against acidic and saline environments
- Excellent Dewatering & Degreasing Properties
- Finger Print Remover
- Non Sticky soft film

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

<table>
<thead>
<tr>
<th>Physical Properties</th>
<th>Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Visual</td>
<td>Amber Clear</td>
</tr>
<tr>
<td>Viscosity @ cSt @ 40°C</td>
<td>ASTM D 445</td>
<td>5 cSt</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>ASTM D 1298</td>
<td>0.78 - 0.83</td>
</tr>
<tr>
<td>Flash Point (before application)</td>
<td>ASTM D 92</td>
<td>80-90 °C</td>
</tr>
<tr>
<td>Flash Point (after application)</td>
<td>ASTM D 92</td>
<td>&lt;220 °C</td>
</tr>
<tr>
<td>Volatiles by % (by</td>
<td></td>
<td>65 %</td>
</tr>
<tr>
<td>Coverage (sq m/ Lt)</td>
<td></td>
<td>100 -150</td>
</tr>
<tr>
<td>Film thickness</td>
<td>IS</td>
<td>2-3</td>
</tr>
<tr>
<td>Pour Point</td>
<td>ASTM D 97</td>
<td>Below -5°C</td>
</tr>
<tr>
<td>Saponification Value (mg KOH/gm)</td>
<td>ASTM D 94</td>
<td>5.0-7.0</td>
</tr>
<tr>
<td>Dewatering</td>
<td></td>
<td>Passes</td>
</tr>
<tr>
<td>Degreasability</td>
<td></td>
<td>Passes</td>
</tr>
<tr>
<td>Salt Spray Protection</td>
<td>ASTM B 117</td>
<td>120 hours+</td>
</tr>
<tr>
<td>Salt Spray in VCI Packaging</td>
<td>ASTM B 117</td>
<td>720 hours +</td>
</tr>
<tr>
<td>Humidity Chamber</td>
<td>ASTM D 1748</td>
<td>720 hours +</td>
</tr>
<tr>
<td>Indoor Protection Life (open)</td>
<td></td>
<td>2 months</td>
</tr>
<tr>
<td>Indoor protection life (packed)</td>
<td></td>
<td>2 years</td>
</tr>
<tr>
<td>Packaged Protection Life (In VCI Packaging)</td>
<td></td>
<td>Up to 5 Years</td>
</tr>
</tbody>
</table>

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 rust preventive oil. This oil does not leave any odor after drying.

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.

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.
APPLICATION PICTURES

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 di-phenylether complying with the 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 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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