



TECHNICAL DATASHEET

PRODUCT NAME – RUST-X Cutting oil

PRODUCT CODE – Sharp 13000

PRODUCT DESCRIPTION

A higher concentration of emulsifiers with cutting oil prevent demulsification, rejects tramp oils, provides better emulsification for high hardness water, and longer emulsion stability under the most degrading environmental conditions and usage.

Sharp 13000 is the most premium product as far as the comparative products and brands are concerned and offers unmatched tool life, lubrication, cooling rate, corrosion protection and ease of operation.

This can be used for the most critical operations for hard and soft metals.

Soluble Oils are used where rapid heat removal is the major requirement. Rust X water Soluble Oils are blended from mineral oils, emulsifiers, rust inhibitors, extreme pressure additives and other coupling agents. The products are mixed with water in normal starting proportions of 3% to 10% for most operations

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

FEATURES

- Very good rust prevention on parts after machining
- High Level of Extreme Pressure Additives
Excellent Cooling Power
- Metal compatibility - Fe
- Extended sump life- 6months - 1 year
Exceptional Resistance to bacterial degradation
- Adapted for a wide range of machine feeds & speeds
- Fewer nicks & wear ability on tools
- Lower Operational temperature

APPLICATIONS

- Ferrous metal machining and grinding.
- Not suited for Aluminum or other metals.

USAGE

Dilution: Do not add just water and then the cutting oil to the tank. Rather make a mixture separately in a barrel for the required concentration and mix thoroughly. Then add this mixture to the machine coolant tank. Use a hand refractor meter to constantly measure the concentration and record regularly on the machine.

Add in water by the prepositions of 1:20 to 1:50 depending upon the operation and severity.



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COOLANT MANAGEMENT

Tramp Oils arise from positive loss lubricators, oily stock, hydraulics, etc. If allowed to build up in the system, tramp oils are the most frequent cause of performance loss. Their presence leads to bacterial degradation, de-emulsification, souring (pH drop) corrosion and poor finishes. On machines standing idle, anaerobic spoilage can be prevented by re-circulating the coolant a few hours twice weekly. Staff will be pleased to provide on-site technical advice and training on your specific coolant requirements.

APPLICATION PICTURES



TECHNICAL SPECIFICATION

Physical Properties	Test Method	Value
Colour	Visual	Amber Solution
Specific Gravity	ASTMD 1298	0.90-0.99
Boling Point		>100° C
Color Emulsion @ 5 % conc. in Water		Translucent White
Forth at 400 ppm water		No Forth
Emulsion test hard Water		700 ppm pass (No oil no Cream)
Viscosity		<52 cSt
Cast Iron Corrosion Test		Pass (5% Solution)
Refractor meter reading multiplication factor		5
Odour		None
Concentration		3-5% depending upon severity of operation
pH @ 5% in 1000 ppm water		8.5-9.5



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PACKAGING AND STORAGE

Store in a cool dry place and always keep oil 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.

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 International or its partners or agent of the claimed defect within 3 months after shipment of product to customer. Customer shall pay all



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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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