



RXSOL

VARANASI CHEMICAL | RX MARINE INTERNATIONAL

RXSOL-40-2000-210

RXSOL 2000

Material Safety Data Sheet (MSDS)

1. Product and Company Identification

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Product Name	:	RXSOL-2000
Product Type	:	DIESEL COOLING WATER CORROSION INHIBITOR-RXSOL-40-2000-210

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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Chemical Name	Concentration	CAS Number	EC Number	R Phrases*
Sodium Nitrite	1-5	7632-00-0	231-555-9	8, 25, 50
Sodium Tetraborate	2-3	1330-43-4	215-540-4	60, 61
Sodium Metasilicate	1-5	6834-92-0	229-912-9	34, 37
Sodium Mercaptobenzothiazole	>1	2492-26-4	219-660-8	34, 43

Properitory 60-70%

This product also contains Benzotriazole, which is very effective effective corrosion inhibitor for copper and its alloys by preventing undesirable surface reactions. It is known that a passive layer, consisting of a complex between copper and benzotriazole, is formed when copper is immersed in a solution containing benzotriazole. The passive layer is insoluble in aqueous and many organic solutions. There is a positive correlation between the thickness of the passive layer and the efficiency of preventing corrosion. The exact structure of the copper-BTA complex is controversial and many proposals have been suggested.

*See Section 16

3. Hazards Identification

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Odour	Odourless
Appearance	Redis to Pink, soluble in water
Contact with eyes	May cause pain
Contact with skin	In cases of severe exposure, severe irritation may develop
Inhalation	Vapours or aerosols may cause irritation of eyes, nose and respiratory tract
Ingestion	Toxic if swallowed (R25)

4. First Aid Measures

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Contact with skin	Remove contaminated clothing immediately and drench affected skin with plenty of water ontaminated clothing should be laundered before reuse When in doubt or symptoms persist, seek medical attention
Contact with eyes	If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes Irrigate eyes thoroughly whilst lifting eyelids Obtain immediate medical attention
Ingestion	Never make an unconscious person vomit or drink fluids Give water or milk to drink Induce vomiting (only if patient is conscious) Obtain immediate medical attention
Inhalation	Inhalation is unlikely to occur Remove patient to fresh air. When in doubt or symptoms persist, seek medical attention
General	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

5. Fire-fighting Measures

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- Nitrogen oxides may be formed.
- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions.
- Substance evolves toxic fumes, wear self-contained breathing apparatus.

6. Accidental Release Measures

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Personal Precautions	Wear protective clothing as per section 8
Environmental Precautions	Do not allow to enter public sewers and watercourses
Immediate Actions	Use appropriate containment to avoid environmental contamination (S57)
Clean Up Actions	Absorb spillage in inert material and shovel up .Ventilate the area and wash spill site after material pick-up is complete
Special Precautions	Wear protective clothing as per section 8

7. Handling and Storage

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Handling	Wear protective clothing as per section 8.Avoid contact with skin and eyes (S24/25) Eyewash bottles should be available
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Storage	Keep only in the original container in a cool, well ventilated place (S3/9/49) Protect from heat Protect from frost
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8. Exposure controls and personal protection

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Exposure controls	Refer 6 and 7 Points for precautions required for this product.
Occupational exposure controls	Wear suitable protective clothing, including eye/face protection and gloves (plastic or rubber are recommended)

9. Physical and chemical properties

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Odour	Odourless
Appearance	Redis to Pink Liquid, soluble in water
pH	11.3 to 11.8 at 100 % concentration
Boiling point	100 °C at 760 mm /Hg
Vapour pressure	not known
Vapour density	not applicable
Freezing point	<0 °C at 760 mm/Hg
Completely soluble in water	
Specific gravity	(water=1) 1.1 to 1.25

10. Stability and reactivity

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- This article is considered stable under normal conditions
- Avoid contact with acid
- Incompatible with acid, Contact with acids liberates toxic gas (R31)
- See Section 5

11. Toxicological information

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Information on toxicological effects

- LD50 (oral,rat) (Sodiumtetraborate) 4500-5000 mg/kg
- LD50 (oral,rat) (Sodium nitrite) 180 mg/kg

Inhalation - Vapours or aerosols may cause irritation of eyes, nose and respiratory tract Contact with skin

- In cases of severe exposure, redness and irritation may develop

Contact with eyes

- In cases of severe exposure, redness and irritation may develop

Ingestion

- Not regarded as a potential route of exposure.
- In cases of severe exposure, cyanosis may develop

Carcinogenicity

- No evidence of carcinogenic effects

Teratogenicity

- No evidence of reproductive effects
- Mutagenicity
- No evidence of mutagenic effects

12. Ecological information

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Ecotoxicity

- LC50 (fish) (Sodium nitrite) 0.56-1.78 mg/l (96 hr)
- EC50 (daphnia) (Sodium nitrite) 12.5-100 mg/l (48hr)
- LC50 (fish) (Sodium tetraborate) 650 mg/l (96 hr)
- EC50 (daphnia) (Sodium tetraborate) 2130 mg/l (48hr)

Mobility in soil

- Completely soluble in water

13. Disposal considerations

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Waste treatment methods - Disposal should be in accordance with local, state or national legislation

14. Transport information

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- Not classified as hazardous for transport

15. Regulatory information

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Classification and labeling	Contains Benzothiazol-2-thiol. May produce an allergic reaction.
Risk Phrases	Toxic if swallowed (R25)
Safety Phrases	Wear suitable protective clothing, eye/face protection and gloves (S36/37/39) in case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45).

16. Other information

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Text of R and S phrase codes used in this safety data sheet:- R25: Toxic if swallowed; R43: May cause sensitisation by skin contact; . Contact with combustible material may cause fire. The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents. The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product. In terms of safety requirements and does not signify any warranty with regard to the product's properties. The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application (s) without seeking advice from manufacturer

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