

1. Product and Company Identification

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Product Name RXSOL-40-4022
Product Type Scale & Corrosion Inhibitor for open and closed cooling systems (ECO)

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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Chemical name	CAS No.	% (active)	EINECS-No.	Symbols	R-phrases
Caustic soda	00 13 1 0-7 3-2	1 - 5 %	2 15 -1 8 5- 5	C-Corro sive	R3 5 , , , ,
Tolyltriazole	29 38 5-43 -1	1 - 5 %	24 9-59 6-6	Xn-Harm fu l	R2 0 / 2 2, R3 6 , , ,
1 - Hydroxy ethylidene- 1 ,1 - di phosphonic acid	28 09-2 1-4	5 - 10%	2 2 0 -5 5 2 -8	C-Co rrosi ve	R3 4 , , , ,
Sulphonated polymer	-	1 - 5 %	P o l y m e r n o t l i s t e d	Nil h a z a r d	, , , ,
Sodium Molybdate	76 31-9 5-0	5 - 15 %	2 3 1 -5 5 1 -7	Nil h a z a r d	, , , ,

3. Hazards Identification

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Physical / chemical hazards Irritant
Environmental Hazards Human health
hazards 8

4. First Aid Measures

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Ingestion Severely irritating to mouth and gastrointestinal tract. Wash out mouth with water then drink plenty of water. Do not induce vomiting. Consult doctor and show this datasheet

Inhalation No known ill effects. Not applicable

Skin Contact Irritation and redness of skin. Soreness on prolonged contact. Wash with soap and water. Remove contaminated clothing for washing. Consult doctor in accordance with symptoms

Eye contact Severe irritation. Prolonged contact may cause damage. Immediately rinse eye with sterile water for 20 minutes. Seek medical advice

Notes to Doctor: None

5. Fire-fighting Measures

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Flammability Non-flammable
Extinguishing media: Water spray jet, extinguishing powder or foam, carbon dioxide
Unsuitable extinguishing media NONE
Hazardous decompositions Decomposition generates oxides of carbon (CO and CO2) and sulphur (SO2)

Protective equipment

Protective clothing and self-contained breathing apparatus.

6. Accidental Release Measures

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Personal precautions

Wear full protective equipment - gloves, eye/face protection and overalls.
Ensure sufficient air supply.

Environmental precautions

Do not allow to enter water courses.

Methods of clean up

Small spillages can be flushed to drain with additional water. Large spillages should be contained. Dilute and neutralise to pH 6-10 with a convenient acid before discharge to drain.

7. Handling and Storage

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Handling

Avoid direct contact with product. Before eating, drinking or smoking wash hands with soap and water

Storage

Store above 10 C. Do not allow to freeze. Ensure that the container is firmly secure when not in use

Shelf life

>12 months

Suitable packaging

Polyethylene, polypropylene and stainless steel containers.

Unsuitable packaging

Metals and alloys.

8. Exposure controls and personal protection

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Exposure limits: Substance

No materials present that are listed in EH40/2005.

Long term WEL (8 Hr): ppm mg/m³

Short term WEL (15 min): ppm mg/m

Engineering measures

None

Respiratory protection

Not applicable.

Skin, hand and body protection

Overalls, boots and rubber gloves.

Eye protection

Chemical goggles or face shield.

9. Physical and chemical properties

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Form

Solution

Boiling point [C]

>100

Colour

Clear

Decomposition temp (C):

Decomposes on heating

Odour

Slight

Specific Gravity

> 1

Molecular weight: Solubility

Completely miscible

pH

Alkaline

10. Stability and reactivity

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Stability

Stable under normal conditions May crystallise below 0 C

Thermal decomposition

Decomposition generates oxides of carbon (CO and CO₂) and sulphur (SO₂)

Conditions to avoid

High temperatures and evaporation of water

Materials to avoid

Soft metals (aluminium, zinc etc) and strong acids.

Hazardous reactions

No known hazardous reactions.

Decomposition products

Decomposition generates oxides of carbon (CO and CO₂) and sulphur (SO₂)

11. Toxicological information

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Acute toxicity:

Oral;	Irritant
Dermal	Irritant
Inhalation	Nil hazard
Eye	Irritant
Other data	

12. Ecological information

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Biodegradability Fully biodegradable and persistence

Ecotoxic effects:

The polymers will contribute to the BOD and COD of the receiving waters
- no data available

Other data

Short term harm to aquatic environment through pH effects.

13. Disposal considerations

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Methods of disposal

Small quantities can be disposed of via a foul drain. Larger quantities should be handled by a licensed contractor in accordance with Waste Disposal Regulations.

Packaging disposal

Return empty containers to the supplier for recycling or destroy by cutting up or by incineration. Do not use for potable water

14. Transport information

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UN No.: N/A

Proper shipping name : Nil hazard for transport

Mode	Regulation	Class	Packing group	Ems No.	Stowage	Code
Road/Rail	European - ADR/RID	N/A	N/A			
Sea	IMO / IMDG					
Air	ICAO / IATA					

15. Regulatory information

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Risk Phrases

R36/38

Irritating to eyes and Skin

Safety phrases

S26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S37/39

Wear suitable gloves and eye/face protection

S45

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

16. Other information

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The above information is based on current knowledge of the product at the time of publication and is given in good faith. It is believed to be correct but does not purport to be all-inclusive and shall therefore be used only as a guide.

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