Material Safety Data Sheet

Corrosion Scale Inhibitor for Open Closed Cooling systems ECO (RXSOL-40-4022-025)

1. Product and Company Identifaction

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 / informationon ingredients

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 ym e r n o t l i st e d	Nil h a za rd	, , , ,
Sodium Molybdate	76 31-9 5-0	5 - 15 %	2 3 1 -5 5 1 -7	Nil h a za rd	, , , ,

3. Hazards Identification

Physical / chemical hazards	Irritant
Environmental Hazards	Human health
hazards	8

4. First Aid Measures

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

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

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

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

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

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

Stability	Stable under normal conditions May crystalise 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

Acute toxicity:

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

12. Ecological information

Biodegradability Fully biodegradable and persis tence

Ecotoxic effects:	The polymers will contribute to the BOD and COD of the receiving waters - no data available
Other data	Short term harm to equatic environment through pH effects.

13. Disposal considerations

Methods of dispos al	Small quantities can be dis posed 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 des troy by cutting up or by incineration. Do not use for potable water

14. Transport information

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

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 s eek medical advice
S37/39	Wear suitable gloves and eye/face protectio
S45	In case of accident or if you feel unwell, s eek medical advice immediately (show the label where possible

16. Other information

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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