

1. Product and Company Identification

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Product Name RXSOL-40-4091-210
Product Type Scale and Corrosion Inhibitor Cooling Water Treatment

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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Hazardous Components	CAS-No	EINECS-No.	Concentration	Symbol(s)	R-phrases
Poly(maleic acid)	26099-09-2		>=5 - =5 - =5 - =1 - =1 - =1 - 100,00 °C		
Melting point/range	(ca.)0 °C				
Sublimation point	No data available				
pH	< 2,5				
Flash point	No data available				
Ignition temperature	No data available				
Evaporation rate	No data available				
Lower explosion limit / Upper explosion limit	No data available				
Dust explosion class	No data available				
Dust explosion constant	No data available				
Burning number	No data available				
Particle size	No data available				
Vapour pressure	24,00 hPa Calculated Vapor Pressure				
Vapour density	No data available				
Density	(ca.)1,18 g/cm ³ @ 68 °F / 20 °C				
Bulk density	No data available				
Solubility	Water completely miscible				
Partition coefficient: n- octanol/water	No data available				
log Pow	No data available				
Autoignition temperature	No data available				
Viscosity, dynamic	No data available				
Viscosity kinematic	No data available				
Hydrolysis	No data available				
Physico-chemical removability	No data available				

10. Stability and reactivity

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Stability : Stable under recommended storage conditions.

Conditions to avoid : excessive heat, Exposure to sunlight.

Incompatible products : Organic materials, Powdered metals, Strong oxidizing agents, strong alkalis, steel, strong reducing agents

Hazardous decomposition products ; carbon dioxide and carbon monoxide, Hydrocarbons, corrosive vapors, toxic fumes, hydrogen cyanide in reducing atmospheres, nitrogen oxides (NO_x), Sulphur oxides

Hazardous reactions : Hazardous polymerisation does not occur

11. Toxicological information

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Exposure routes

Skin contact, Eye Contact, Ingestion, Inhalation

Eye contact

Causes eye irritation.

Skin contact

Causes skin irritation.

Ingestion

May cause burns to mouth, throat and stomach. Not known to be harmful if swallowed.

Inhalation

May cause respiratory tract irritation. Not known to be harmful if inhaled.

Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: Skin, Upper respiratory tract, lung (for example, asthma-like conditions)

Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), Nose bleeding, Cough, choking, chest pain, Difficulty in breathing, lung edema (fluid buildup in the lung tissue)

Target Organs

Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans: damage to tooth enamel, effects on lung function, respiratory tract damage (nose, throat, and airways)

Acute oral toxicity

Poly(maleic acid) (26099-09-2) : LD 50 Rat: 12.500 mg/kg

2-Acrylamido-2-methylpropanesulfonic acid-acrylic

acid copolymer (40623-75-4) : no data available

[[2-(hydroxyethyl)imino]bis(methylene)]bisphosphonic acid (5995-42-6) : no data available

Sodium 4(or 5)-methyl-1H-benzotriazolide (64665-057-2) : LD 50 Female Rat:

735 mg/kg. Sulphuric acid (7664-93-9) : LD 50 Rat: 2.140 mg/kg

hydrochloric acid...% (7647-01-0) : LD 50 Rabbit: 900 mg/kg

Acute inhalation toxicity Poly(maleic acid) (26099-09-2) : no data available 2-Acrylamido-2-methylpropanesulfonic acid-acrylic acid copolymer

(40623-75-4) : no data available [[2-(hydroxyethyl)imino]bis(methylene)]bisphosphonic acid (5995-42-6) : no data available Sodium 4(or

5)-methyl-1H-benzotriazolide (64665-057-2) : no data available

Sulphuric acid (7664-93-9) : no data available hydrochloric acid...% (7647-01-0) : LC 50

Rat: 3.124 mg/l, 1 h Acute dermal toxicity Poly(maleic acid) (26099-09-2) : no data available

2-Acrylamido-2-methylpropanesulfonic acid-acrylic acid copolymer (40623-75-4) : no data available

[[2-(hydroxyethyl)imino]bis(methylene)]bisphosphonic acid (5995-42-6) no data available Sodium 4(or 5)-methyl-1H-benzotriazolide (64665-057-2) LD 50

Rabbit:
> 2.000 mg/kg
Sulphuric acid (7664-93-9) : no data available
hydrochloric acid...% (7647-01-0) : no data available

12. Ecological information

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Elimination information (per persistence and degradability) biodegradability Poly(maleic acid) (26099-09-2) : no data available

2-Acrylamido-2-methylpropanesulfonic acid-acrylic : no data available
acid copolymer (40623-75-4) [(2-hydroxyethyl)imino]bis(methylene)]bisphosphonic acid (5995-42-6) no data available

Sodium 4(or 5)-methyl-1H-benzotriazolide (64665-7-2) : 70 % Exposure time: 28 d
Sulphuric acid (7664-93-9) : no data available
hydrochloric acid...% (7647-01-0) : no data available
Physico-chemical removability
Poly(maleic acid) (26099-09-2) : no data available

2-Acrylamido-2-methylpropanesulfonic acid-acrylic acid copolymer (40623-75-4) : no data available
[[[(2-Hydroxyethyl)imino]bis(methylene)]bisphosphonic acid (5995-42-6) : no data available

Sodium 4(or 5)-methyl-1H-benzotriazolide (64665-57-2) : no data available
Sulphuric acid (7664-93-9) : no data available
hydrochloric acid...% (7647-01-0) : no data available
Bioaccumulation : The bioaccumulation potential cannot be determined. cototoxicity effects oxicity to fish
Poly(maleic acid) (26099-09-2) : 96 h LC50 Rainbow trout, donaldson trout (Oncorhynchus mykiss): 100,000 mg/l

2-Acrylamido-2-methylpropanesulfonic acid-acrylic acid copolymer (40623-75-4) : no data available
[[[(2-Hydroxyethyl)imino]bis(methylene)]bisphosphonic acid (5995-42-6) : no data available

Sodium 4(or 5)-methyl-1H-benzotriazolide (64665-57-2) :
: 96 h LC 50 Lepomis macrochirus (Bluegill sunfish): > 173,000 mg/l
96 h LC 50 Danio rerio (zebra fish): 122,000 mg/l
Sulphuric acid (7664-93-9) : 96 h LC 50 Western mosquitofish (Gambusia affinis): 42,000 mg/l Method: Static Mortality

hydrochloric acid...% (7647-01-0) : no data available
Toxicity to daphnia and other aquatic invertebrates.
Poly(maleic acid) (26099-09-2) : 48 h LC 50 Daphnia magna (Water flea): 580,000 mg/l
2-Acrylamido-2-methylpropanesulfonic acid-acrylic acid copolymer (40623-75-4) : no data available
[[[(2-Hydroxyethyl)imino]bis(methylene)]bisphosphonic acid (5995-42-6) : no data available
Sodium 4(or 5)-methyl-1H-benzotriazolide (64665-57-2) : 48 h EC 50 Water flea (Daphnia magna): 280,000 mg/l

Sulphuric acid (7664-93-9) : no data available
hydrochloric acid...% (7647-01-0) : no data available
Toxicity to algae
Poly(maleic acid) (26099-09-2) : no data available
2-Acrylamido-2-methylpropanesulfonic acid-acrylic acid copolymer (40623-75-4) : no data available

[[[(2-Hydroxyethyl)imino]bis(methylene)]bisphosphonic acid (5995-42-6) : no data available

Sodium 4(or 5)-methyl-1H-benzotriazolide (64665-57-2) : 72 h Growth inhibition EC 50 Pseudokirchneriella subcapitata (green algae): 26,200 mg/l
Sulphuric acid (7664-93-9) : no data available
hydrochloric acid...% (7647-01-0) : no data available

Toxicity to bacteria

Poly(maleic acid) (26099-09-2) : no data available
2-Acrylamido-2-methylpropanesulfonic acid-acrylic acid copolymer (40623-75-4) : no data available
[[2-Hydroxyethyl]imino]bis(methylene)]bisphosphonic acid (5995-42-6) : no data available
Sodium 4(or 5)-methyl-1H-benzotriazolide (64665-57-2) : no data available
Sulphuric acid (7664-93-9) : no data available
hydrochloric acid...% (7647-01-0) : no data available

13. Disposal considerations

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Waste disposal methods

Dispose of in accordance with the European Directives on waste and hazardous waste. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of in accordance with local regulations.

Empty packaging

Empty remaining contents. Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

European Waste Catalogue

The Waste code should be assigned in discussion between the user and the waste disposal company.

14. Transport information

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REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY
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ADR : Not dangerous goods

ADNR : Not dangerous goods

RID : Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS : Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO :Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER :Not dangerous goods

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

15. Regulatory information

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R-phrase(s)

R36/38 Irritating to eyes and skin.

S-phrase(s)

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.

S51 Use only in well-ventilated areas.

S60 This material and its container must be disposed of as hazardous waste.

Notification status

US. Toxic Substances Control Act n (Negative listing)

Canada. Canadian Environmental Protection Act (CEPA).

Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133) n (Negative listing)

Australia. Industrial Chemical (Notification and Assessment) Act n (Negative listing)
New Zealand. Inventory of Chemicals (NZIoC), as published by
ERMA New Zealand n (Negative listing)Japan. Kashin-Hou Law List n (Negative listing)
Korea. Toxic Chemical Control Law (TCCL) List n (Negative listing) Philippines.

16. Other information

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Full text of R-phrases referred to under sections 2 and 3

R36/38 Irritating to eyes and skin.

R36 Irritating to eyes.

R34 Causes Burns.

R22 Harmful if swallowed.

R35 Causes severe burns.

R37 Irritating to respiratory system.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

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