1. Product and Company Identifaction

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Product Name RXSOL-40-4099-210
Product Type Chlorine Scavenger

Company Details:

RX MARINE INTERNATIONAL 105, A wing , BSEL , TECH PARK. VASHI ,NEW BOMBAY 400703 INDIA

Stock Point ::: Mumbai, Gandhidham, Chennai, Visakhapatnam, Kolkata, Fujairah, Muscat - Barka

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Email <u>mail@rxmarine.com</u>

2. Composition / Information on ingredients

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 Hazardous Substance(s)
 CAS
 % (w/w)

 Sodium Bisulphate
 7631-90-5
 30.0 - 50.0

 Proprietory Blend
 -- 50.0 - 70.0

3. Hazards Identification

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EMERGENCY OVERVIEW

WARNING

Harmful if swallowed. Contains Sulfite. Causes asthmatic signs and symptoms in hyper-reactive individuals.

Do not get in eyes, on skin, on clothing. Do not take internally. Use with adequate ventilation. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water.

Wear suitable protective clothing. May evolve oxides of sulfur (SOx) under fire conditions.

PRIMARY ROUTES OF EXPOSURE Skin, Eye, Inhalation

HUMAN HEALTH HAZARDS -

ACUTE

EYE CONTACT Can cause mild irritation. SKIN CONTACT Can cause mild irritation.

INGESTION: Not a likely route of exposure. May cause asthmatic-like attack.

INHALATION: Irritant to respiratory system. Causes asthmatic signs and symptoms in hyper-reactive individuals.

SYMPTOMS OF EXPOSURE:

Acute: A review of available data does not identify any symptoms from exposure not previously mentioned.

Chronic: A review of available data does not identify any symptoms from exposure not previously mentioned.

AGGRAVATION OF EXISTING

CONDITIONS:

A review of available data does not identify any worsening of existing conditions.

HUMAN HEALTH HAZARDS - Ingestion of sulfi

CHRONIC:

Ingestion of sulfite can cause a severe allergic reaction in asthmatics and some sulfite sensitive individuals. The symptoms can include difficulty in breathing, flushed skin and a rash. Chronic exposure to sulfites may cause sym

upper respiratory disease and affect sense of taste and smell.

4. First Aid Measures

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EYE CONTACT: Immediately flush eye with water for at least 15 minutes while holding eyelids open. If irritation persists, repeat flus

immediate medical attention.

SKIN CONTACT: Immediately flush with plenty of water for at least 15 minutes. If symptoms persist, call a physician.

INGESTION: Induce vomiting if the patient is fully conscious. If conscious, washout mouth and give water to drink. Get medical att

INHALATION: Remove to fresh air, treat symptomatically. If breathing is difficult, administer oxygen. Get medical attention.

NOTE TO PHYSICIAN:

Based on the individual reactions of the patient, the physician's judgement should be used to control symptoms and

ondition.

5. Fire-fighting Measures

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FLASH POINT : None

EXTINGUISHING MEDIA: This product would not be expected to burn unless all the water is boiled away. The remaining organized

be ignitable. Keep containers cool by spraying with water. Use extinguishing media approp

surrounding fire.

FIRE AND EXPLOSION HAZARD: May evolve oxides of sulfur (SOx) under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE In case of fire, wear a full face positive-

FIGHTING:

In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective s

6. Accidental Release Measures

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PERSONAL PRECAUTIONS: Restrict access to area as appropriate until clean-up operations are complete. Ensure clean-up is conducted by

personnel only. Ensure adequate ventilation. Do not touch spilled material. Stop or reduce any leaks if it is safe to depersonal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection). Notify approximately app

government, occupational health and safety and environmental authorities.

METHODS FOR CLEANING UP:

SMALL SPILLS: Soak up spill with absorbent material. Place residues in a suitable, covered, properly labeled container. Wash affect

LARGE SPILLS: Contain liquid using absorbent material, by digging trenches or by diking. Reclaim into recovery of drums or tank truck for proper disposal. Wash site of spillage thoroughly with water. Contact an approved waste h disposal of contaminated recovered material. Dispose of material in compliance with regulations indicated in Se

(Disposal Considerations).

ENVIRONMENTAL PRECAUTIONS Do not contaminate surface water.

:

7. Handling and Storage

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HANDLING: Avoid eye and skin contact. Do not take internally. Do not get in eyes, on skin, on clothing. Have emergency equipment of the contact of the conta

fires, spills, leaks, etc.) readily available. Ensure all containers are labelled. Keep the containers closed when not in

with adequate ventilation.

STORAGE CONDITIONS: Protect product from freezing. Store the containers tightly closed. Store separately from acids. Store in suitable

containers. Amine and sulphite products should not be stored within close proximity or resulting vapors may for

airborne particles.

SUITABLE CONSTRUCTION

MATERIAL:

HDPE (high density polyethylene), Compatibility with Plastic Materials can vary; we therefore recommend that com is tested prior to use., Brass, Neoprene, Polyurethane, Viton, Hypalon, EPDM, Polypropylene, Polyethylene, PVC

UNSUITABLE CONSTRUCTION Stainless Steel 304, Buna-N, Epoxy phenolic resin, 100% phenolic resin liner

MATERIAL:

8. Exposure controls and personal protection

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OCCUPATIONAL EXPOSURE Exposure guidelines have not been established for this product. Available exposure limits for the substance(s) at

LIMITS: below. Exposure limits are listed for sulfur dioxide (SO2) since this product evolves SO2 when open to the atmospher

ACGIH/TLV: Substance(s)

Sodium Bisulfite TWA: 5 mg/m3 Sulfur Dioxide TWA: 2 ppm , 5.2 mg/m3

STEL: 5 ppm , 13 mg/m3

OSHA/PEL: Substance(s)

Sodium Bisulfite TWA: 5 mg/m3 Sulfur Dioxide TWA: 2 ppm , 5 mg/m3

STEL: 5 ppm, 13 mg/m3

ENGINEERING MEASURES: General ventilation is recommended. Local exhaust ventilation may be necessary when dusts or mists are generated.

RESPIRATORY PROTECTION: If significant mists, vapors or aerosols are generated an approved respirator is recommended. An approved respirator

worn if the occupational exposure limit is likely to be exceeded.

HAND PROTECTION: Neoprene gloves, Nitrile gloves, Butyl gloves, PVC gloves

SKIN PROTECTION: Wear standard protective clothing. EYE PROTECTION: Wear chemical splash goggles.

HYGIENE RECOMMENDATIONS: If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothin

reuse. Keep an eye wash fountain available. Keep a safety shower available.

HUMAN EXPOSURE Based on our recommended product application and personal protective equipment, the potential human exposure is: I

CHARACTERIZATION:

9. Physical and chemical properties

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PHYSICAL STATE Liquid
APPEARANCE Yellow
ODOR Pungent

SPECIFIC GRAVITY 1.37 @ 77 °F / 25 °C

DENSITY 11.4 lb/gal
BULK DENSITY 11.4 lb/ft3
pH (1 %) 4.1

VISCOSITY 2.8 cps @ 77 °F / 25 °C

FREEZING POINT $34 \,^{\circ}\text{F} / 1.1 \,^{\circ}\text{C}$ BOILING POINT $219 \,^{\circ}\text{F} / 104 \,^{\circ}\text{C}$

VAPOR PRESSURE 32 mm Hg @ 77 °F / 25 °C 76 mm Hg @ 99.9 °F / 37.7 °C

VAPOR DENSITY 2.2 (Air = 1)

VOC CONTENT 0.00 % EPA Method 24

Note: These physical properties are typical values for this product and are subject to change.

10. Stability and reactivity

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STABILITY: Stable under normal conditions.

 $HAZARDOUS\ POLYMERIZATION:\ Hazardous\ polymerization\ will\ not\ occur.$

CONDITIONS TO AVOID : Freezing temperatures.

MATERIALS TO AVOID: Contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated

permanganate) may generate heat, fires, explosions and/or toxic vapors. Contact with strong acids (e.g. sulfuric, ph nitric, hydrochloric, chromic, sulfonic) may generate heat, splattering or boiling and toxic vapors. SO2 may react wi

from neutralizing amines and may produce a visible cloud of amine salt particles.

HAZARDOUS DECOMPOSITION

PRODUCTS:

Under fire conditions: Oxides of sulfur.

11. Toxicological information

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The following results are for a similar product

ACUTE ORAL TOXICITY:

Species LD50
Rat 4.1 g/kg
Rating: Non-Hazardous

ACUTE DERMAL TOXICITY:

Species LD50 Rabbit 3 g/kg

Rating Non-Hazardous

PRIMARY SKIN IRRITATION:

Draize Score Test Descriptor
1.0 / 8.0 Similar Product
Rating: Slightly irritating

PRIMARY EYE IRRITATION:

Draize Score Test Descriptor 9.4 / 110.0 Similar Product

Rating: Practically non-irritating

SENSITIZATION: Sulfites can cause an allergic reaction in sensitive individuals.

CARCINOGENICITY: None of the substances in this product are listed as carcinogens by the International Agency for Research on Cancer

the National Toxicology Program (NTP) or the American Conference of Governmental Industrial

Hygienists (ACGIH).

HUMAN HAZARD Based on our hazard characterization, the potential human hazard is: Low

CHARACTERIZATION:

12. Ecological information

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ECOTOXICOLOGICAL EFFECTS: The following results are for the product and a similar product.

ACUTE FISH RESULTS:

SpeciesExposureRainbow Trout96 hrsFathead Minnow96 hrs

ACUTE INVERTEBRATE RESULTS

:

SpeciesExposureDaphnia magna48 hrsDaphnia magna48 hrs

CHRONIC FISH RESULTS:

Species Exposure Fathead Minnow 7 Days

CHRONIC INVERTEBRATE

RESULTS:

Species Test Type Type Ceriodaphnia dubia 3 Brood

MOBILITY:

The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require quilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models. If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

The portion in water is expected to be soluble or dispersible.

BIOACCUMULATION POTENTIAL This preparation or material is not expected to bioaccumulate.

ENVIRONMENTAL HAZARD AND Based on our hazard characterization, the potential environmental hazard is: Low

EXPOSURE CHARACTERIZATION Based on our recommended product application and the product's characteristics, the potential environmental exp

If released into the environment, see CERCLA/SUPERFUND in Section 15.

13. Disposal considerations

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If this product becomes a waste, it is not a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D.

As a non-hazardous waste, it is not subject to federal regulation. Consult state or local regulation for any additional handling, treatment or disposal requirements. For disposal, contact a properly licensed waste treatment, storage, disposal or recycling facility.

14. Transport information

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N/A

15. Regulatory information

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Health Hazard :- N/A

- Delayed (Chronic) Health Hazard :- N/A

- Fire Hazard :- N/A

- Sudden Release of Pressure Hazard :- N/A

- Reactive Hazard :- N/A

16. Other information

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Other Special Considerations: Not available The information above is believed to be acc of such damages.

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ability for loss, damage or repared and is to be used pplicable.	r expense arising out of d only for this product.	or in any way connected If the product is use	ed with the handling, s d as a component in	storage, use or disposal o another product, this M	f the product. This MSDS was ISDS information may not be