

1. Product and Company Identification

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Product Name Sodium Polyacrylate
Product Type RXSOL-81-8132-025

Company Details:

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

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

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2. Composition / Information on ingredients

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Name	CAS#	% by Weight
Sodium Polyacrylate	9003-04-7	

3. Hazards Identification

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EMERGENCY OVERVIEW

Sodium polyacrylate is a white, granular, odorless polymer that yields a gel-like material with the addition of water. It is insoluble in water and causes extremely slippery conditions when wet. Although not regulated as a hazardous material, the respirable dust is potential respiratory tract irritant. The manufacturer recommends an eight-hour exposure limit of 0.05 mg/m³.

INHALATION

Exposure to respirable dust may cause respiratory tract and lung irritation and may aggravate existing respiratory conditions.

INGESTION

Although not a likely route of entry, tests have shown that polyacrylate absorbents are non-toxic if ingested. However, as in any instance of non-food consumption, seek medical attention in the event of any adverse symptoms.

SKIN

Exposure to the dust, such as in manufacturing, may aggravate existing skin conditions due to drying effect.

EYES

Dust may cause burning, drying, itching, and other discomfort, resulting in reddening of the eyes.

4. First Aid Measures

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Eye Contact	Immediately flush with plenty of water. Remove particles remaining under the eyelids. Get medical attention if irritation persists.
SkinContact	Remove polyacrylate absorbent dust from skin using soap and water.
Inhalation	If inhaled, move to source of fresh air. Seek medical attention if

Ingestion

symptoms persist.

Non-toxic by ingestion. However, if adverse symptoms appear, seek medical attention.

5. Fire-fighting Measures

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General Fire Hazards

No recognized fire hazards associated with the finished product.

Fire and Explosive Properties:

Flammability Classification

None

Flash Point

NA

Flammable Limits:

Upper

NE

Lower

NE

Hazardous Combustion Products

None known.

Extinguishing Media

Dry chemical, foam, carbon dioxide, and water fog. Extremely slippery conditions are created if spilled product comes in contact with water.

Fire Fighting Instructions

Firefighters should wear full protective clothing including self-contained breathing apparatus.

6. Accidental Release Measures

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Containment Procedures:

Sweep or vacuum material when possible and shovel into a waste container.

Clean up procedures:

Use caution after contact of product with water, as extremely slippery conditions will result. Residuals maybe flushed with water into the drain for normal wastewater treatment. This is a non-hazardous waste suitable for disposal in an approved solid waste landfill.

Evacuation Procedures:

None required.

Special Procedures:

Avoid respirable dust inhalation during clean up. Wear appropriate respirator.

7. Handling and Storage

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Handling

Handle as an eye and respiratory tract irritant.

Storage

Store in a dry, closed container.

8. Exposure controls and personal protection

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Engineering Controls

Provide local exhaust ventilation to maintain worker exposure to less than 0.05 mg/m³ over an eight-hour period.

PERSONAL PROTECTIVE EQUIPMENT:

Personal Protective Equipments: Eyes/Face

Personal Protective Equipments: Skin

Personal Protective Equipments

Personal Protective Equipments: General

Wear safety glasses with side shields or goggles.

Use impervious gloves when handling the product in the manufacturing environment.

Respiratory Wear respirator with a high efficiency filter is particulate concentration in the work area exceeds 0.05 mg/m³ over an eight hour time period

Obey reasonable safety precautions and practice good housekeeping. Wash thoroughly after handling.

9. Physical and chemical properties

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Appearance/Odor

White Granular Powder, No Odor

pH

5.5 – 6.5 (1% in water)

Specific Gravity (Bulk Density)

0.4 – 0.7 g/ml

Vapor Pressure

< 10 mm Hg

Vapor Density

NE

Melting Point

> 390 °F

Freezing Point

NA

Boiling Point

NA

Solubility in Water

Insoluble

Evaporation Rate (%)

< 1.0

10. Stability and reactivity

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Stability

This material is chemically stable under normal and anticipated storage and handling conditions.

Chemical Stability

None

Conditions to Avoid

None

Incompatibility

Hazardous Decomposition Products

Decomposition above 200 °C

Hazardous Polymerization

Will not occur.

11. Toxicological information

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12. Ecological information

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Ecotoxicity

A: General Product Information:

Composted polyacrylate absorbents are non-toxic to aquatic or terrestrial organisms at predicted exposure levels.

B: Component Analysis ☐ Ecotoxicity ☐ Aquatic Toxicity

No information available.

Environmental Fate:

Polyacrylate absorbents are relatively inert in aerobic and anaerobic conditions. They are immobile in landfills and soil systems (> 90% retention), with the mobile fraction showing biodegradability. They are also compatible with incineration of municipal solid waste. Incidental down-the-drain disposal of small quantities of polyacrylic absorbents will not affect the performance of wastewater treatment systems.

13. Disposal considerations

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US EPA Waste Number & Descriptions

A: General Product Information

This product is a non-hazardous waste material suitable for approved solid waste landfills.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Dispose of in accordance with Local, State, and Federal Regulations.

14. Transport information

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NA

15. Regulatory information

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NA

16. Other information

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