Material Safety Data Sheet

Sodium Polyacrylate (RXSOL-81-8132-025)

1. Product and Company Identifaction

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

Phone	+91 22 27815541 / 42 / 43
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	mail@rxmarine.com

2. Composition / informationon ingredients

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

3. Hazards Identification

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

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 symptoms persist.

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

5. Fire-fighting Measures

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

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

Handling	Handle as an eye and respiratory tract irritant.
Storage	Store in a dry, closed container.

8. Exposure controls and personal protection

Engineering Controls	Provide local exhaust ventilation to maintain worker exposure to less than 0.05 mg/m^3 over an eight-hour period.
PERSONAL PROTECTIVE EQUIPMENT:	

Personal Protective Equipments: Eyes/Face	Wear safety glasses with side shields or goggles.
Personal Protective Equipments: Skin	Use impervious gloves when handling the product in the manufacturing environment.
Personal Protective Equipments	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
Personal Protective Equipments: General	Obey reasonable safety precautions and practice good housekeeping. Wash thoroughly after handling.

9. Physical and chemical properties

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 ºF
Freezing Point	NA
Boiling Point	NA
Solubility in Water	Insoluble
Evaporation Rate (%)	1.0

10. Stability and reactivity

Stability	This material is chemically stable under normal and anticipated storage and handling conditions.
Chemical Stability	
Conditions to Avoid	None
Incompatibility	None
Hazardous Decomposition Products	Decomposition above 200 ºC
Hazardous Polymerization	Will not occur.

11. Toxicological information

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.

12. Ecological information

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

US EPA Waste Number & Descriptions
A: General Product Information
This product is a non-hazardous waste material suitable for approved sold 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

NA

15. Regulatory information

NA

16. Other information

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