

1. Product and Company Identification

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Product Name

Resin Cation

Part Number

RXSOL-32-3112-025

Company Details:

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

Branch : Kandla, Mumbai , Chennai, Vizag, Kolkata, UAE , OMAN , CANADA and KENYA

Phone +91 22 20871200 - 1400

Fax +91 22 27612100 ::::AOH :0091 9821214367

Email mail@rxmarine.com

2. Composition / Information on ingredients

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Chemical Name	CAS Number	Weight
Diethylenyl-benzene polymer with ethenylbenzene, sulfonated	69011-22-9	65-70%
De-ionized water	007732-18-5	30-35%

3. Hazards Identification

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Signal Word	Warning
Hazard Statements	P261 Avoid breathing dust. P264 Wash hands thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves, clothing, and eye protection.
Precautionary statements prevention	- P302+P352 IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. P304+P340 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305+P351+P338 P312 Call a POISON CONTROL CENTER or doctor if you feel unwell. P332+P313 If skin irritation occurs, seek medical attention. P337+P313 If eye irritation persists, get medical attention immediately. Take off contaminated clothing and wash before reuse
Precautionary statements - response	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. Storage: Store locked up. Store in corrosive resistant stainless steel container with a resistant inner liner. Disposal: Dispose of contents/ container to an approved waste disposal plant.

4. First Aid Measures

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Eye Contact

Rinse immediately with plenty of water, also under the eyelids, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.

Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing before reuse. Thoroughly clean shoes before reuse.

Inhalation:	If inhaled, If inhaled, remove to fresh air. If not breathing, If not breathing, difficult, give oxygen. Call a physician.
Ingestion:	If swallowed, do not induce vomiting. Allow victim to drink water. Never give anything by mouth to an unconscious person.
Notes to Physicians	Treat symptomatically.

5. Fire-fighting Measures

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Suitable extinguishing media	Use extinguishing measures that are appropriate to local conditions and environment.
Protective Equipment	Use personal protective equipment.
Combustion products	Under fire conditions some components of this product may decompose to unidentified toxic and/or irritating compounds. Combustion products are limited to: Sulfur oxides. Organic sulfonates. Hydrocarbons. Carbon monoxide. Carbon dioxide. Benzene compounds.
Advice for firefighters	Wear self-contained breathing apparatus. Wear full protective clothing.
Specific extinguishing methods	Fire residues and contaminated fire extinguishing water should be disposed in accordance with local regulations. In the event of fire and/or explosion do not breathe the fumes.

6. Accidental Release Measures

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Personal precautions	Keep unnecessary and unprotected personnel from entering the area. Take additional precautionary measures. Spilled material must be cleaned up using appropriate equipment. For additional information, refer to Section 13, Disposal.
Enviromental Precaution	Do not allow contact with soil, surface or groundwater. Notify appropriate relevant authorities immediately.
Methods and materials for containment and cleaning up	Contain spilled material if possible. Sweep up. Record spill. Store in clean and properly labeled containers. See Section 13, Disposal.

7. Handling and Storage

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Advice on safe handling	Static electricity can accumulate on dry beads. Leaking material may wetting and/or changing ionic form. Equipment contaminated with regenerant, ionic form and effluent of the ion exchange process may be generating and breathing dust. Wash thoroughly after use. Housekeeping and controlling of dusts are necessary. See Section 13, Disposal. EXPOSURE CONTROLS AND PERSONAL PROTECTION
Storage	Normal warehouse storage in cool, dry area is satisfactory. Storage temperature: 0 to 50 °C (32 to 122°F) Recommended shelf Life: Use within 36 months Preferred Storage temperature is in the lower half of the range. Keep away from strong oxidizers. Specific End Use(s) Apart from the uses mentioned above. Wash hands after use. Do not to eat, drink and smoke.
General Advice	

8. Exposure controls and personal protection

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Engineering Control	Use local exhaust ventilation, or other engineering controls to meet the limit requirements or guidelines. If there are no applicable requirements, general ventilation should be sufficient for most operations.
Control Parameter	Contains no substances with occupational exposure limits.
Personal Protection	Eye/face protection: Use safety glasses (with side shields) to protect from particles which could cause eye discomfort, wear chemical resistant gloves. Skin protection

Hygiene measures

Hand protection: Use gloves chemically resistant to the product. If contact with the product or contact could occur. If hands are cut or scratched, use gloves for brief exposures. Examples of preferred glove barriers are nitrile or vinyl. Nitrile/butadiene rubber (nitrile) or vinyl. Choose a specific glove for a particular application and duration. Consider all relevant workplace factors such as, but not limited to, the product being handled, physical requirements (cut/puncture protection), chemical reactions to glove materials, as well as the instructions for use.

Other protection: Wear clean, body-covering clothing.

Respiratory protection: Under intended handling conditions, no respiratory protection is needed.

Handle in accordance with good industrial hygiene and

9. Physical and chemical properties

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Form	Bead
Colour	Yellow
Odour	Odourless
Boiling point and boiling range	Not Applicable
Flash Point	Not Applicable
Freezing Point	Not Applicable
pH	Not Applicable
Evaporation rate	Not Applicable
Flammability (solid, gas)	No data available
Upper explosion limit	Not Applicable
Lower explosion limit	Not Applicable
Explosive properties	No data available
Vapor pressure	Not Applicable
Relative vapor density	Not Applicable
Relative density	1.20 - 1.28
Water solubility	Insoluble in water
Solubility in other solvents	Not Applicable
Partition coefficient: octanol	No data available
Autoignition temperature	Not Applicable
Thermal decomposition	Not Applicable
Viscosity, kinematic	Not Applicable
Explosive properties	Not Applicable
Oxidizing properties	Not Applicable

10. Stability and reactivity

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Reactivity	No dangerous reaction known under conditions of normal use.
Stability	Stable under recommended storage conditions
Possibility of hazardous reactions	Polymerization will not occur.
Incompatible materials	Avoid contact with oxidizing materials. Oxidizing agents such as nitric acid attack organic exchange resins under certain conditions. Before using strong oxidizing agents, consult sources knowledgeable in handling such materials. The severity of the reaction between oxidizing materials can vary from slight degradation to an explosive reaction.
Hazardous Decomposition	Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products are not limited to: Aromatic compounds. Hydrocarbons. Organic sulfonates. Sulfur oxides.
Condition to Avoid	Exposure to elevated temperatures can cause product to decompose.

11. Toxicological information

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Route of Exposure	Sensitization, Eye contact, Skin contact
Eyes	May cause slight temporary eye irritation. Solid or dust may cause irritation or corneal injury due to mechanical action
Skin	Prolonged exposure not likely to cause significant skin irritation. May cause more severe response if skin is abraded (scratched)
Ingestion	Not Applicable
Inhalation	Vapors are unlikely due to physical properties. No adverse effects are anticipated from inhalation. For respiratory narcotic effects: No relevant data found. As product: The LC50 has not been determined.,
Chronic Exposure	Health injuries are not known or expected under normal use.
Acute oral toxicity	Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. Typical for this family of materials. LD50, Rat, > 5,000 mg/kg
Acute inhalation toxicity	No adverse effects are anticipated from inhalation. For respiratory irritation and narcotic effects: No relevant data found. The LC50 has not been determined.,
Acute dermal toxicity	No adverse effects anticipated by skin absorption. The dermal LD50 has not been determined.,
Classification	OSHA Hazard Communication Standard 29CFR 1910.1200.

12. Ecological information

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Environmental Effects	No data available
Toxicity to fish	Acute toxicity to fish Not expected to be acutely toxic, but material in pellet or bead form may mechanically cause adverse effects if ingested or aquatic life
Toxicity to daphnia and others	No data available
Toxicity to algae	No data available
Biodegradability	This water-insoluble polymeric solid is expected to be inert in the environment. Surface photodegradation is expected with sunlight. No appreciable biodegradation is expected.
Bioaccumulative potential	No bioconcentration is expected because of the relatively high molecular weight (MW greater than 1000).
Mobility in soil	In the terrestrial environment, material is expected to remain in the soil. In the aquatic environment, material will sink and remain in the sediment.

13. Disposal considerations

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Remarks	Please consider the relevant national or regional product categories that can be handled separately by the local or regional authorities.
Waste Disposal	DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO WATER. All disposal practices must be in compliance with applicable laws and regulations. Regulations may vary in different countries. Compliance with applicable laws are the responsibility of the user. SUPPLIER, WE HAVE NO CONTROL OVER THE MANUFACTURING PROCESSES OF PARTIES HANDLING THE INFORMATION PRESENTED HERE PERTAINING TO THE INFORMATION SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED. Information. FOR UNUSED & UNCONTAMINATED MATERIALS, sending to a licensed, permitted: Incinerator or other thermal treatment.

14. Transport information

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Hazard Pictograms:

DOT	Not regulated for transport
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Classification for SEA transport (IMO-IMDG):	Not regulated for transport
Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code	Not regulated for transport
Classification for AIR transport (IATA/ICAO)	Not regulated for transport

15. Regulatory information

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OSHA Hazard Communication Standard	This product is not a "Hazardous Chemical" as defined by the Hazard Communication Standard, 29 CFR 1910.1200.
Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312	This product is not a hazardous chemical under 29CFR 1910.1200, Title III of SARA.
California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)	This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require labeling.
United States TSCA Inventory (TSCA)	All components of this product are in compliance with the requirements of the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

16. Other information

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Other Information

The information above is believed to be accurate and available to us. However, we make no warranty of accuracy, expressed or implied, with respect to such information, and we should make their own investigations to determine its suitability for particular purposes. In no event shall we be liable for any damages, including but not limited to, for lost profits or any special, indirect, incidental, or consequential damages arising, even if Rx Marine International has been advised in writing of the need for such damages.

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