1. Product and Company Identifaction

www.rxmarine.com

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

www.rxmarine.com

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

3. Hazards Identification

www.rxmarine.com

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 t rinsing. P305+P351+P338P312 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 attentio 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 contami Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Imm POISON CENTER or doctor/ physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove co present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. Wash contam 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

www.rxmarine.com

Eye Contact	Rinse immediately with plenty of water, also under t lenses, if present and easy to do. Continue rinsing. Ge
Skin Contact	Wash off immediately with plenty of water for at le clothing before reuse. Thoroughly clean shoes before

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

5. Fire-fighting Measures

www.rxmarine.com

Suitable extinguishing media	Use extinguishing measures that are appropriate to l environment.
Protective Equipment	Use personal protective equipment.
Combustion products	Under fire conditions some components of this product unidentified toxic and/or irritating compounds. Combu limited to: Sulfur oxides. Organic sulfonates. Hydrocarbo Carbon monoxide. Carbon dioxide. Benzene compounds.
Advice for firefighters	Wear self-contained breathing apparatus. Wear full prote
Specific extinguishing methods	Fire residues and contaminated fire extinguishing water local regulations. In the event of fire and/or explosion do

6. Accidental Release Measures

www.rxmarine.com

Personal precautions	Keep unnecessary and unprotected personnel from e additional precautionary measures. Spilled material m equipment. For additional information, refer to Sectio
Enviromental Precaution	Do not allow contact with soil, surface or ground relevant authorities immediately.
Methods and materials for containment and cleaning up	Contain spilled material if possible. Sweep up. Reco and properly labeled containers. See Section 13, Disp

7. Handling and Storage

www.rxmarine.com

Advice on safe handling	Static electricity can accumulate on dry beads. Le wetting and/or changing ionic form. Equipment con regenerant, ionic form and effluent of the ion ex generating and breathing dust. Wash thoroughly housekeeping and controlling of dusts are necess EXPOSURE CONTROLS AND PERSONAL PRO
Storage	Normal warehouse storage in cool, dry area is satisfa 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 Keep away from strong oxidizers. Specific End Use(s) Apart from the uses mentioned
General Advice	Wash hands after use. Do not to eat, drink and smok

8. Exposure controls and personal protection

www.rxmarine.com

Engineering Control	Use local exhaust ventilation, or other engineering co limit requirements or guidelines. If there are no appl general ventilation should be sufficient for most opera
Control Parameter	Contains no substances with occupational exposure li
Personal Protection	**Eye/face protection**: Use safety glasses (with side particles which could cause eye discomfort, wear che **Skin protection**

	Hand protection: Use gloves chemically resistant to th contact could occur. If hands are cut or scratched, us for brief exposures. Examples of preferred glove bar or ?vinyl?). Nitrile/butadiene rubber (?nitrile? or ? specific glove for a particular application and durat account all relevant workplace factors such as, but handled, physical requirements (cut/puncture protect reactions to glove materials, as well as the instructions **Other protection**: Wear clean, body-covering clothin **Respiratory protection:** Under intended handling needed.
Hygiene measures	Handle in accordance with good industrial hygiene an

9. Physical and chemical properties

www.rxmarine.com

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 Applicble
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

www.rxmarine.com

Recativity	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 cer Before using strong oxidizing agents, consult sources knowledgeable in handling such materials. The severity of th 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 produ and 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

www.rxmarine.com

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 (scr
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

www.rxmarine.com

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 ingeste 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 w 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

www.rxmarine.com

Remarks	Please consider the relevant national or regional pro categories that can be handled separately by the local or
Waste Disposal	DO NOT DUMP INTO ANY SEWERS, ON THE WATER. All disposal practices must be in compliance laws and regulations. Regulations may vary in diffe compliance with applicable laws are the responsibility SUPPLIER, WE HAVE NO CONTROL OVER MANUFACTURING PROCESSES OF PARTIES HA THE INFORMATION PRESENTED HERE PERT SHIPPED IN ITS INTENDED CONDITION AS DES Information. FOR UNUSED & UNCONTAMINATED sending to a licensed, permitted: Incinerator or other the

14. Transport information

www.rxmarine.com

Hazard Pictograms:

DOT	Not regulated for transport

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

www.rxmarine.com

OSHA Hazard Communication Standard	This product is not a ?Hazardous Chemical? as definec 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 Title III of SARA.
California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)	This product contains no listed substances knownto the defects or other reproductive harm, at levels which wou
United States TSCA Inventory (TSCA)	All components of this product are in compliance with Toxic Substances Control Act (TSCA) Chemical Substa

16. Other information

www.rxmarine.com

Other Information	The information above is believed to be accurate available to us. However, we make no warranty of implied, with respect to such information, and we should make their own investigations to deter particular purposes. In no event shall be liable for an for lost profits or any special, indirect, incidental, arising, even if Rx Marine International has been adv DISCLAIMER OF LIABILITY :The information in believe are reliable. However, the information is pr regarding its correctness. The conditions or methods are beyond our control and may be beyond our kn assume responsibility and expressly disclaim liability any way connected with the handling, storage, use or and is to be used only for this product. If the produc MSDS information may not be applicable.