

Product Name	: Resin Cation
Part Number	: RXSOL-32-3112-50

Company Details:

RX MARINE INTERNATIONAL  
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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%

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+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 attention. P362+P364 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.

Eye Contact      Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.      Skin Contact      Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

Inhalation:      If inhaled, If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.      Ingestion:      If swallowed, do not induce vomiting. Allow victim to rinse his mouth and then to drink 2-4 cupfuls of water. Never give anything by mouth to an unconscious person. Call a physician.

Notes to Physicians      Treat symptomatically.

Suitable extinguishing media      Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.      Protective Equipment      Use personal protective equipment.      Combustion products      Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds. Combustion products may include and are not limited to: Sulfur oxides. Organic sulfonates. Hydrocarbons.

Carbon monoxide. Carbon dioxide. Benzene compounds.      Advice for firefighters      Wear self-contained breathing apparatus. Wear full protective equipment.      Specific extinguishing methods      Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

#### Personal precautions

Keep unnecessary and unprotected personnel from entering the area. Refer to section 7, Handling, for additional precautionary measures. Spilled material may cause a slipping hazard. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental Precaution      Do not allow contact with soil, surface or ground water.If the products get into drains, inform the relevant authorities immediately.      Methods and materials for containment and cleaning up      Contain spilled material if possible. Sweep up. Recover spilled material if possible. Collect in suitable and properly labeled containers. See Section 13, Disposal Considerations, for additional information.

Advice on safe handling      Static electricity can accumulate on dry beads. Leave room for expansion as dry resin swells upon wetting and/or changing ionic form. Equipment construction material should be compatible with feed, regenerant, ionic form and effluent of the ion exchange process. Avoid contact with eyes. Avoid generating and breathing dust. Wash thoroughly after handling. Keep container closed. Good housekeeping and controlling of dusts are necessary for safe handling of product. See Section 8, 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 given below.

Keep away from strong oxidizers.

Specific End Use(s) Apart from the uses mentioned in section 1 no other specific uses are stipulated.  
after use. Do not to eat, drink and smoke in work areas.

General Advice

Wash hands

Engineering Control Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations.

Control Parameter Contains no substances with occupational exposure limit values.

Personal Protection

**Eye/face protection:** Use safety glasses (with side shields). If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles.

#### Skin protection

Hand protection: Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. If hands are cut or scratched, use gloves chemically resistant to this material even for brief exposures. Examples of preferred glove barrier materials include: Polyvinyl chloride ("PVC" or "vinyl"). Nitrile/butadiene rubber ("nitrile" or "NBR"). Neoprene. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

**Other protection:** Wear clean, body-covering clothing.

**Respiratory protection:** Under intended handling conditions, no respiratory protection should be needed.  
in accordance with good industrial hygiene and safety practice.

Hygiene measures

Handle

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		Lower	
explosion limit	Not Applicable	Explosive properties		No data available		Vapor pressure		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							

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 certain conditions. Before using strong oxidizing agents, consult sources knowledgeable in handling such materials. The severity of the reaction with 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 can include and are not limited to: Aromatic compounds. Hydrocarbons. Organic sulfonates. Sulfur oxides.

Condition to Avoid Exposure to elevated temperatures can cause product to decompose.

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 or cut).		
Ingestion	Not Applicable	Inhalation	Vapors are unlikely due to physical properties. No adverse effects are anticipated from inhalation. For respiratory irritation and 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. As product:	
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.	

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 by waterfowl 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 exposure to 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.			

Remarks	Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.	Waste Disposal	DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composition Information. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Incinerator or other thermal destruction device. Landfill.
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#### Hazard Pictograms:

DOT	Not regulated for transport	Classification for SEA transport (IMO-IMDG):	Not regulated for transport
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		

OSHA Hazard Communication Standard	This product is not a "Hazardous Chemical" as defined by the OSHA 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, and therefore is not covered by		
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 a warning under the statute.

United States TSCA Inventory (TSCA)

All components of this product are in compliance with the inventory listing requirements of the U.S.

Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

#### Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if RX Marine International has been advised of the possibility of such damages.

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