

Product Name	: Resin Anion
Part Number	: RXSOL-32-3111-02

Company Details:

RX MARINE INTERNATIONAL  
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Chemical Name

CAS Number

Weight

Styrene, Divinylbenzene and Ethylstyrene Copolymer

69011-19-4

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 Carbon oxides and other toxic gasses and vapors  
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

Avoid creating and breathing dust. See section 8. Use proper personal protect equipment (specified in section 8) Surface may be slippery.

Enviromental 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 Sweep up material and transfer to a suitable container for disposal

Advice on safe handling      Avoid repeated freeze-thaw cycles; beads may fracture. If frozen, thaw at room temperature. Conditions for safe handling Use mechanical exhaust if dust is formed.      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 24 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.      General Advice      Wash hands after use. Do not to eat, drink and smoke in work areas.

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.      Hygiene measures      Handle in accordance with good industrial hygiene and safety practice.

Form	Bead	Colour	White to Yellow	Odour	Amine	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	1.06 to 1.10	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						

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 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: Chlorinated hydrocarbons. Aromatic compounds. Hydrocarbons. Hydrogen chloride. Organic amines.

Condition to Avoid	Exposure to elevated temperatures can cause product to decompose.
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Route of Exposure	Sensitization, Eye contact, Skin contact	Eyes
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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
Sensitization	

For skin sensitization:

No relevant data found.

For respiratory sensitization:

No relevant data found.

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, female, > 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.

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	

#### OSHA Hazard Communication Standard

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. SARA III 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 we 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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