

Section 01: Chemical Product Identification

Domestic Trade Name: **2000 BATCH MIXED BED RESIN**

Export Trade Name: 2000 BATCH MIXED BED RESIN

Product Use: All applications where deionized water is needed.

Synonyms: Mixed Bed ion exchange resin

CAS Number: 69011-20-7 (10-30%)

69011-18-3 (20-50%)

7732-18-5 (40-70%)

Manufacturer/Supplier: AmeriWater, LLC

General Information: 937-461-8833

Address: 3345 Stop 8 Rd, Dayton Ohio, 45414, USA

Website: www.AMERIWATER.com

Section 02: Hazards Identification:

GHS Classification:

| Health | Environmental | Physical |
|--|--|--|
| <p>Health Hazards: Primary Route of Exposure: Skin contact Inhalation: Inhalation of dust can cause irritation of nose, throat, and lungs. Skin Contact: Exposure to skin may cause slight irritation, but immediate first aid not likely required Eye contact: Material can cause corrosion to eyes, reddening, tearing. May cause permanent eye damage. Ingestion: Material is not harmful if accidentally ingested Medical Conditions Aggravated by Exposure: May aggravate existing skin ailments.</p> | <p>Acute Toxicity: Mutagenicity: No Data Oral Toxicity: No Data Skin Irritation: Causes slight irritation Inhalation Toxicity: Inhalation of dust can cause irritation of nose, throat, and lungs Chronic Exposure: No Data Available Eye Contact: can cause corrosion to eyes, reddening, tearing. May cause permanent eye damage. Sensitizer: Not a sensitizer</p> | <p>Physical Boiling Point: N/A Melting/Freezing Point: Approximately 0°C – 32°F Appearance: Yellow to Brown Beads Specific Gravity: 1.1 g/ml Odor: Slight Amine Vapor Pressure: 17 mm Hg Vapor Density: 0.62 Water Solubility: Negligible</p> |

GHS Label:

Symbols:



Hazard Statements

WARNING

H315: Causes skin irritation (Category 2)

H319: Causes serious eye irritation (Category 2A)

Precautionary Statements

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection

P284: In case of inadequate ventilation wear respiratory protection.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P333+313: If skin irritation or a rash occurs: Get medical advice/attention.

P337+313: If eye irritation persists get medical advice/attention.

P403+233: Store in a well-ventilated place. Keep container tightly closed.

P411: Store at temperatures not exceeding 50 °C/ 122 °F.

Section 03: Composition / Information on Ingredients

Component

CAS Number

| | |
|---|-----------------------|
| Polystyrene sulfonate in the hydrogen form | 69011-20-7 (10 - 30%) |
| Trimethylamine functionalized chloromethylated copolymer of polystyrene in the hydroxide form | 69011-18-3 (20 - 50%) |
| Water | 7732-18-5 (40 – 70%) |

Section 04: First Aid Measures

Eye: Wash immediately with water- seek attention if discomfort continues.

Skin: Wash with soap and water- seek medical attention if a rash develops.

Inhalation: No adverse effects expected. Normal use of product does not produce odors or vapors.

Ingestion: No adverse effects expected for small amounts, larger amounts can cause stomach irritation. Seek medical attention if discomfort occurs.

Section 05: Fire Fighting Measures

Suitable Extinguishing Media: Water, CO₂, foam, dry powder.

Fire Fighting Procedures: Follow general fire fighting procedures indicated in the work place. Seek medical attention if discomfort continues.

Unusual Fire and Explosion Hazards: None known

Combustion Products: Carbon oxides and other toxic gasses and vapors.

Autoignition Temp: N/A

Flammable Limits: LEL (Lower Explosive Limits) N/A

Section 06: Accidental Release Measures

Personal Precautions: Keep people away, spilled resin can be a slipping hazard, wear gloves and safety glasses to minimize skin or eye contact.

Incompatible Chemicals: Strong oxidants can create risk of combustion products similar to burning, exposure to strong bases can cause a rapid temperature increase.

Environmental Precautions: Keep out of public sewers and waterways.

Containment Materials: Use plastic or paper containers, unlined metal containers not recommended.

Methods of Clean-up: Sweep up material and transfer to containers

Section 07: Handling and Storage

Handling: Avoid prolonged skin contact. Avoid contact with salts or with salty water to prevent premature exhaustion of the resin. Keep resin moist and avoid allowing resin to completely dry.

Storage: Store in a cool dry place (0° to 45° C) in the original shipping container. This product is thermally sensitive and will have reduced shelf life if subjected to extended periods of time at temperatures exceeding 45° C. Although freezing does not usually damage ion exchange resins, avoid repeated freeze thaw cycles.

TSCA considerations: Ion exchange resins should be listed on the TSCA Inventory in compliance with State and Federal Regulations.

Section 08: Exposure Control/Personal Protection

OSHA exposure limits: None noted.

Engineering Controls: Provide adequate ventilation.

Personal Protection Measures:

Eye Protection Safety glasses or goggles.

Respiratory Protection Not required for normal use.

Protective Gloves Not required for limited exposure but recommended for extended contact.

Section 09: Physical and Chemical Properties

Appearance: Solid beads approx 0.6 mm diameter

Melting point/freezing point: Does not melt, freezes at

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|---|---|
| Flammability/explosive limits: Flammable above 500° C | approx. 0 ° C |
| Odor: None | Solubility: Insoluble in water and most solvents |
| Physical State: Solid | Boiling point: Does not boil |
| Vapor pressure: Not available | Flash point: Approx 500° C |
| Odor threshold: Not available | Evaporation rate: Does not evaporate |
| Vapor density: Not available | Partition Coefficient (n-octanol/water): Not applicable |
| pH: Acidic or basic when mixed with water | Auto-ignition temperature: Approx 500° C |
| Relative density: Approx 700 grams/Liter | Decomposition temperature: Above 230° C |
| | Viscosity: Not applicable |

Section 10: Stability and Reactivity

Stability: Stable under normal conditions.

Conditions to Avoid: Heat, exposure to strong oxidants.

Hazardous by-products: Organic sulfonates, amines, charred polystyrene, aromatic acids and hydrocarbons, organic amines, nitrogen oxides, carbon oxides, chlorinated hydrocarbons.

Incompatible materials: Strong oxidizing agents (such as HNO₃), strong bases (such as NaOH), strong acids (such as HCl and H₂SO₄)

Hazardous Polymerization: Does not occur

Section 11: Toxicological Information

Likely Routes of Exposure: Oral, skin or eye contact.

Effects of exposure:

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| Delayed | None known. |
| Immediate (acute) | Rash or burn caused by acidity or causticity. |
| Chronic | None known. |

Toxicity Measures

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|-----------------|---|
| Skin Adsorption | Unlikely |
| Ingestion | Oral toxicity believed to be low but no LD50 has been established. |
| Inhalation | Unknown, vapors are very unlikely due to physical properties (insoluble solid). |

Toxicity Symptoms

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|-----------------|---------------------------------|
| Skin Adsorption | Rash or burn. |
| Ingestion | Indigestion or general malaise. |
| Inhalation | Unknown. |

Carcinogenicity: None known skin.

Section 12: Ecological Information

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| Eco toxicity | Not harmful to plant or animal life. |
| Mobility | Insoluble, acidity or causticity may escape if wet. |
| Biodegradability | Not biodegradable. |
| Bioaccumulation | Insignificant. |
| Other adverse effects | Not Harmful to the environment. |

Section 13: Disposal Considerations

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| General considerations | Material is non-hazardous. |
| Disposal Containers | Most plastic and paper containers are suitable. Avoid use of unlined metal containers. |
| Disposal methods | No specific method necessary. |
| Sewage Disposal | Not recommended. |
| Precautions for incineration | May release acids and toxic vapors when burned. |
| Precautions for landfills | pH of spent resin may be high or low. Resins used to remove hazardous materials may then become hazardous mixtures. |

Section 14: Transport Information

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| Transportation Class | Not classified as a dangerous good for transport by land, sea, or air. |
| TDG | Not regulated. |
| IATA | Not regulated. |
| DOT (49 CFR 172.101) | Not Regulated. |

Section 15: Regulatory Information

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| CERCLA | Not regulated |
| SARA Title III | Not regulated |
| Clean Air act | Not regulated |
| Clean Water Act | Not regulated |
| TSCA | Not regulated |
| Canadian Regulations | |
| WHMIS | Not a controlled product |
| TDG | Not regulated |
| Mexican Regulations | Not Dangerous |

Section 16: Other Information

National Fire Protection Association (NFPA) Ratings: This information is intended solely for the use of individuals trained in the NFPA system.

Health: 1
Flammability: 1
Reactivity: 0
Special: N/A

Scale: 0 = Negligible 1 = Slight 2 = Moderate 3 = High 4 = Extreme

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features. Regulatory requirements are subject to change and may differ from one location to another. It is the buyer's responsibility to ensure that their activities comply with federal, state, and local laws.