SDS

Material Safety Data Sheet
September 08, 2016

Section 01: Chemical Product Identification

Domestic Trade Name: **MAG MIXED 3000 BATCH MIXED BED RESIN**
Export Trade Name: 3000 BATCH MIXED BED RESIN
Synonyms: Mixed Bed ion exchange resin
Product Use: All applications where deionized water is needed.
CAS Number: 69011-20-7 (10-30%)
69011-18-3 (20-50%)
7732-18-5 (40-70%)

Manufacturer/Supplier: AmeriWater, LLC
Address: 3345 Stop 8 Rd, Dayton Ohio, 45414, USA
General Information: 937-461-8833
Website: www.AMERIWATER.com

Section 02: Hazards Identification:

GHS Classification:

Health	Environmental	Physical
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.	*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	Boiling Point: N/A Melting/Freezing Point: Approximately 0°C – 32°F Appearance: Amber, tan, dark brown, or black cation beads blended with white, yellow, orange, or red anion beads. Specific Gravity: 1.1 g/ml Odor: Slight Amine Vapor Pressure: 17 mm Hg Vapor Density: 0.62 Water Solubility: Negligible

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 (0º to 45º 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 45º 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
Flammability/explosive limits: Flammable above 500º C
Odor: None
Physical State: Solid
Vapor pressure: Not available
Odor threshold: Not available
Vapor density: Not available
pH: Acidic or basic when mixed with water
Relative density: Approx 700 grams/Liter

Melting point/freezing point: Does not melt, freezes at approx. 0 º C
Solubility: Insoluble in water and most solvents
Boiling point: Does not boil
Flash point: Approx 500º C
Evaporation rate: Does not evaporate
Partition Coefficient (n-octonol/water): Not applicable
Auto-ignition temperature: Approx 500º C
Decomposition temperature: Above 230º 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 HNO_3), strong bases (such as NaOH), strong acids (such as HCl and H_2SO_4)
Hazardous Polymerization: Does not occur

Section 11: Toxicological Information

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

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

Toxicity Measures

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

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

Carcinogenicity: None knownskin.

Section 12: Ecological Information

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

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

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

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.