SAFETY DATA SHEET

SSM-135

(Strong Base Anion Exchange Resin in the chloride form impregnated with hydrated iron oxide)

Effective date 1 January 2024

SECTION 1: Identification	
1A: Product Name	ResinTech SSM-135
1B: Common Name	Strong base anion resin in the chloride form impregnated with hydrated iron oxide.
1C: Intended use	Arsenic removal from potable water and other general anion exchanges.
1D: Manufacturer Address	ResinTech, Inc. 1801 Federal Street, Camden, NJ 08105 USA
Contact Information:	856-768-9600 ixresin@resintech.com

SECTION 2: Hazard Identification	
2A: OSHA Hazard classification 0 = Negligible 1 = Slight 2 = Moderate 3 = High 4 = Extreme	Not hazardous or dangerous Health - 0 (0 = Negligible) Fire - 1 (1 = Slight) Reactivity - 0 (0 = Negligible) Special – N/A
⚠ **WARNING**	(contains ion exchange resin) H320: Causes eye irritation (Category 2B)

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SECTION 2: Hazard Identification Continued	
Precautionary Statements	P264: Wash hands thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face 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.
2B: Product description	Black or red colored solid beads approximately 0.6 mm diameter with little or no odor.
2C: Precautions for use	Safety glasses and gloves recommended. Slipping hazard if spilled.
Potential health effects	Will cause eye irritation. May cause skin irritation. Ingestion is not likely to pose a health risk.
2D: Environmental effects	This product may alter the pH of any water that contacts it.

SECTION 3: Composition/ Information on Ingredients	
3A: Chemical name	Trimethylamine functionalized chloromethylated copolymer of polystyrene in the chloride form impregnated with hydrated iron oxide.
3B: Ingredients: Ferric hydroxide	CAS# 20344-49-4 (10 – 20%)
Trimethylamine functionalized chloromethlyated copolymer of styrene and divinylbenzene in the chloride form	CAS# 60177-39-1 (35 - 50%)
Water	CAS# 7732-18-5 (30 – 45%)

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SECTION 4: First Aid Measures	
4A: Inhalation	No adverse effects expected- normal use of product does not produce odors or vapors.
4B: Skin	Wash with soap and water- seek medical attention if a rash develops.
4C: Eye contact	Wash immediately with water-seek attention if discomfort continues.
4D: Ingestion	No adverse effects expected for small amounts, larger amounts can cause stomach irritation. Seek medical attention if discomfort occurs.

SECTION 5: Fire Fighting Measures	
5A: Flammability	NFPA Fire rating = 1
5B: Extinguishing media	Water, CO_2, foam, dry powder
5C: Fire fighting Procedures	Follow general fire fighting procedures indicated in the work place. Seek medical attention if discomfort contin-ues.
5D: Protective Equipment	MSHA/NIOSH approved self-contained breathing gear, full protective clothing.
5E: Combustion Products	Carbon oxides and other toxic gasses and vapors.
5F: Unusual Hazards	Product is not combustible until moisture is removed. Resin begins to burn at approximately 230° C. Auto ignition can occur above 500° C.

SECTION 6: Accidental Release Measures	
6A: Personal Precautions	Keep people away, spilled resin can be a slipping hazard, wear gloves and safety glasses to minimize skin or eye contact.
6B: Incompatible Chemicals	Strong oxidants can create risk of combustion products similar to burning.
6C: Environmental Precautions	Keep out of public sewers and waterways.
6D: Containment Materials	Use plastic or paper containers.
6E: Methods of Clean-up	Sweep up material and transfer to containers.

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SECTION 7: Handling and Storage	
7A: Handling	Avoid prolonged skin contact. Keep resin moist and avoid allowing resin to completely dry.
7B: 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 50° C. Although freezing does not usually damage ion exchange resins, avoid repeated freeze thaw cycles.

SECTION 8: Exposure Controls/Personal Protection	
8A: Personal Precautions	None noted.
8B: Incompatible Chemicals	Provide adequate ventilation.
8C: Personal Protection Measures	Eye Protection- Safety glasses or goggles. Respiratory Protection - Not required for normal use. Protective Gloves - Recommended for extended contact.

SECTION 9: Physical and Chemical Properties	
Appearance	Amber, yellow, or red beads approx. 0.6 mm diameter.
Flammability or explosive limits	Flammable above 500° C
Odor	Little or no odor
Physical State	Solid
Vapor pressure	N/A
Odor threshold	N/A
Vapor density	N/A
pH	Near neutral. (6 to 8 typical)
Relative density	Approx 800 grams/Liter
Melting point/freezing point	Does not melt, freezes at approx. 0 C
Solubility	Insoluble in water and most solvents
Boiling point	Does not boil
Flash point	Approx 500° C
Evaporation rate	Does not evaporate

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SECTION 9: Physical and Chemical Properties Continued	
Partition Coefficient (n-octonol/water)	N/A
Auto-ignition temperature	Approx 500° C
Decomposition temperature	Above 230° C
Viscosity	N/A

SECTION 10: Stability and Reactivity	
10A: Stability	Stable under normal conditions.
10B: Conditions to Avoid	Heat, exposure to strong oxidants.
10C: Hazardous by-products	Trimethylamine, charred polystyrene, aromatic acids and hydrocarbons, organic amines, nitrogen oxides, carbon oxides, chlorinated hydrocarbons.
10D: Incompatible materials	Strong oxidizing agents (such as HNO_3)
10E: Combustion Products	Does not occur

SECTION 11: Toxicological Information	
11A: Likely Routes of Exposure	Oral, skin or eye contact.
11B: Effects of exposure	Delayed - None known. Immediate (acute) - None known. Chronic - None known.
11C: 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).
11D: Toxicity Symptoms	Skin Adsorption - Mild rash. Ingestion - Indigestion or general malaise. Inhalation - None known.
11E: Carcinogenicity	None known

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SECTION 12: Ecological information	
12A: Eco toxicity	Not acutely harmful to plant or animal life.
12B: Mobility	Insoluble
12C: Biodegradability	Not biodegradable.
12D: Bioaccumulation	Insignificant.
12E: Other adverse effects	Not Harmful to the environment.

SECTION 13: Disposal Considerations	
13A: General considerations	Material is non-hazardous.
13B: Disposal Containers	Most plastic and paper containers are suitable.
13C: Disposal methods	No specific method necessary
13D: Sewage Disposal	Not recommended
13E: Precautions for incineration	May release organic amines and toxic vapors when burned.
13F: Precautions for landfills	Resins used to remove hazardous materials may then become hazardous mixtures.

SECTION 14: Transportation Information	
14A: Transportation Class	Not classified as a dangerous good for transport by land, sea, or air.
14B: TDG	Not regulated.
14C: IATA	Not regulated.
14D: DOT (49 CFR 172.101)	Not regulated.

SECTION 15: Regulatory Information	
15A: CERCLA	Not regulated
15B: SARA Title III	Not regulated
15C: Clean Air act	Not regulated
15D: Clean Water Act	Not regulated
15E: TSCA	Not regulated
15F: Canadian Regulations	WHMIS - Not a controlled product TDG - Not regulated
15G: Mexican Regulations	Not Dangerous

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SECTION 16: Other Information

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.

16A: Date of Revision	1 January 2024

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