

## Safety Data Sheet Product Name: ASM-10-HP

(Strong Base Anion Exchange Resin in the Chloride Form impregnated with hydrated iron oxide) Effective date February 23, 2018

Section 1: Identification			
1a	Product Name	ResinTech ASM-10-HP	
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. 160 Cooper Road, West Berlin, NJ 08091 USA	
	Phone Email	856-768-9600 ixresin@resintech.com	
Section 2: Hazard Identification			
2a	OSHA Hazard classification	Not hazardous or dangerous	
		Product Hazard RatingScaleHealth = 00 = NegligibleFire = 11 = SlightReactivity = 02 = ModerateSpecial - N/A3 = High4 = Extreme	
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.	
2c	Potential health effects	Will cause eye irritation. May cause mild 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 2A: Hazard classification UN OSHA globally harmonized system



# Warning (contains ion exchange resin) H320: Causes eye irritation (Category 2B)

### **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.

Please refer to the safety data sheet for additional information regarding this product.

ResinTech, Inc. 160 Cooper Road West Berlin, NJ 08091-9234 856 768-9600 Ixresin@resintech.com

Sec	tion 3: Composition/ Information on In	gredients	
3a	Chemical name	Dimethyl ethanolamine functionalized chloromethylated copolymer of polystyrene in the chloride form impregnated with hydrated iron oxide.	
3b	Ingredients Dimethyl-ethanolamine functionalized chloromethlyated copolymer of styrene and divinylbenzene in the chloride form	CAS# 69011-15-0 (35 - 50%)	
3c	Ferric hydroxide	CAS# 20344-49-4 (10 – 20%)	
	Water	CAS# 7732-18-5 (30 – 45%)	
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.	
Sec	tion 5: Fire Fighting Measures		
5a	Flammability	NFPA Fire rating = 1	
5b	Extinguishing media	Water, CO2, foam, dry powder	
5c	Fire fighting Procedures	Follow general fire fighting procedures indicated in the work place. Seek medical attention if discomfort continues.	
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.	

Sec	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.		
Sec	tion 7: Handling and Storage			
7a	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.		

	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 45° C. Although freezing does not usually damage ion exchange resins, avoid repeated freeze thaw cycles.

Section 8: Exposure Controls/Personal Protection		
8a	OSHA exposure limits	None noted.
8b	Engineering Controls	Provide adequate ventilation.
8c	Personal Protection Measures Eye Protection Respiratory Protection Protective Gloves	Safety glasses or goggles. Not required for normal use. Recommended for extended contact.

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Section 9: Physical and Chemical Properties		
Appearance	Black 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	Not available	
Odor threshold	Not available	
Vapor density	Not available	
рН	Near neutral.	
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	
Partition Coefficient (n-octonol/water)	Not applicable	
Auto-ignition temperature	Approx 500° C	
Decomposition temperature	Above 230° C	
Viscosity	Not applicable	

Section 10: Stability and Reactivity	
10a Stability	Stable under normal conditions.
10b Conditions to Avoid	Heat, exposure to strong oxidants.
10c Hazardous by-products	Dimethyl-ethanolamine, charred polystyrene, aromatic acids and hydrocarbons, organic amines, nitrogen oxides, carbon oxides, chlorinated hydrocarbons.
10d Incompatible materials	Strong oxidizing agents (such as HNO <sub>3</sub> )
10e Hazardous Polymerization	Does not occur

Section 11: Toxicological Informatio	n	
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	None known.	
11d Toxicity Symptoms		
Skin Adsorption	Mild rash.	
Ingestion	Indigestion or general malaise.	
Inhalation	Unknown.	
11e Carcinogenicity	None known	

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 TDG	Not a controlled product Not regulated
15g Mexican Regulations	Not Dangerous

#### Section 16: Other Information

The information provided in this safety data sheet is presented in good faith and believed to be accurate as of the effective data shown above. However, no warranty or guarantee of accuracy, express or implied is given. 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 31 March 2015