


CG8-H-ID

(Color indicating hydrogen form cation resin))

Effective date 10 January 2020

SECTION 1: Identification	
1A: Product Names	ResinTech CG8-H-ID
1B: Common Name	Dyed hydrogen form cation resin
1C: Intended use	Cation conductivity columns and other applications where color change indication of pH change is desired.
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 - 1 (1 = Slight) Fire - 1 (1 = Slight) Reactivity - 0 ((0 = Negligible) Special - N/A
 WARNING	(contains hydrogen form cation resin) H315: Causes skin irritation (Category 2) H319: Causes serious eye irritation (Category 2A)

SECTION 2: Hazard Identification Continued	
Precautionary Statements	<p>P264: Wash hands thoroughly after handling.</p> <p>P280: Wear protective gloves/protective clothing/eye protection/face protection</p> <p>P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.</p> <p>P333+313: If skin irritation or a rash occurs: Get medical advice/attention.</p> <p>P337+313: If eye irritation persists get medical advice/attention.</p> <p>P403+233: Store in a well ventilated place. Keep container tightly closed.</p> <p>P411: Store at temperatures not exceeding 50 °C/ 122 °F.</p>
2B: Product description	Purple 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 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 3: Composition/ Information on Ingredients	
3A: Chemical name	Polystyrene sulfonate in the hydrogen form, dyed with 4-(Phenylazo)diphenylamine.
3B: Ingredients - 4-(Phenylazo) diphenylamine	CAS# 101-75-7 (< 0.1%)
Sulfonated copolymer of styrene and divinylbenzene in the hydrogen form	CAS# 69011-20-7 (40 - 60%)
Water	CAS# 7732-18-5 (40 – 60%)

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.

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SECTION 4: First Aid Measures Continued	
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.
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, unlined metal containers not recommended.
6E: Methods of Clean-up	Sweep up material and transfer to containers.

SECTION 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.

SECTION 7: Handling and Storage Continued

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.
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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 - Not required for limited exposure but recommended for extended contact.

SECTION 9: Physical and Chemical Properties

Appearance	Purple beads
Flammability or explosive limits	Flammable above 500° C
Odor	None
Physical State	Solid
Vapor pressure	N/A
Odor threshold	N/A
Vapor density	N/A
pH	Acidic when mixed with water
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-octanol/water)	Not applicable
Auto-ignition temperature	Approx 500° C

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SECTION 9: Physical and Chemical Properties Continued

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	Organic sulfonates, charred polystyrene, aromatic acids and hydrocarbons, organic amines, nitrogen oxides, carbon oxides, chlorinated hydrocarbons.
10D: Incompatible materials	Strong oxidizing agents (such as HNO ₃), strong bases (such as NaOH).
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) - Rash or burn caused by acidity Chronic - None known.
11C: Toxicity Measures	Skin Adsorption - Unlikely, some transfer of acidity is possible 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 - Rash or burn Ingestion - Indigestion or general malaise. Inhalation - Unknown.
11E: Carcinogenicity	None known

SECTION 12: Ecological information	
12A: Eco toxicity	Not harmful to plant or animal life.
12B: Mobility	Insoluble, acidity may escape if wet.
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. However, pH may be below general landfill limits
13B: Disposal Containers	Most plastic and paper containers are suitable. Avoid the use of unlined metal containers.
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	pH of spent resin may be low. Resins used to remove hazardous materials may then become hazardous mixtures. 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

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	10 January 2020
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