CG8-K

(Cation Exchange Resin in the Potassium Form)

Effective date 10 January 2020

SECTION 1: Identification	
1A: Product Names	ResinTech CG8-K
1B: Common Name	Cation exchange resin in the potassium form.
1C: Intended use	Intended for use in water softening and other neutral salt cation exchange applications where the release of sodium ions is undesirable.
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	Not hazardous or dangerous
0 = Negligible	Health - 0 (0 = Negligible)
1 = Slight	Fire - 1 (1 = Slight)
2 = Moderate	Reactivity - 0 ((0 = Negligible)
3 = High	Special - N/A
4 = Extreme	
♦ WARNING	(contains ion exchange resin)
	H320: Causes eye irritation (Category 2B)





SECTION 2: Hazard Identification Continued	
	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.
Precautionary Statements	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	Amber, tan or black colored solid beads with little or
2B: Product description	no odor.
	Safety glasses and gloves recommended.
2C: Precautions for use	Slipping hazard if spilled.
Potential health effects	Will cause eye irritation.
	Ingestion is not likely to pose a health risk.
2D: Environmental effects	Little or none.

SECTION 3: Composition/ Information on Ingredients	
3A: Chemical name	Polystyrene sulfonate in the sodium form
3B: Ingredients - Polystyrene sulfonate in the sodium form	CAS# 69011-22-9 (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	
	No adverse effects expected for small amounts, larger
4D: Ingestion	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, CO2, 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, paper, or metal containers.
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.

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

SECTION 9: Physical and Chemical Properties	
Appearance	Amber, tan, or black 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
рН	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
Partition Coefficient (n-octonol/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, e.g. nitric acid (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 - Unknown.
11E: Carcinogenicity	None known

SECTION 12: Ecological information	
12A: Eco toxicity	Not 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.

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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 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

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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