



## Safety Data Sheet

**Product Names: CGS, CGS-BL, CG8, CG8-BL, CG8-C, CG8-F, CG8-UPS, CG8-HP, CG8-NS, CG10, CG10-BL, CG10-UPS, CG10-HP, SACMP, SACMP-UPS**

(Cation Exchange Resin in the Sodium Form)

Effective date 31 March 2015

### Section 1: Identification

|    |                      |   |
|----|----------------------|---|
| 1a | Product Names        | ResinTech CGS, CGS-BL, CG8, CG8-BL, CG8-C, CG8-F, CG8-UPS, CG8-HP, CG8-NS, CG10, CG10-BL, CG10-UPS, CG10-HP, SACMP, SACMP-UPS |
| 1b | Common Name          | Cation exchange resin in the sodium form.   |
| 1c | Intended use         | All general purpose cation exchange for general use including water softening and demineralization.                           |
| 1d | Manufacturer Address | ResinTech, Inc.<br>160 Cooper Road,<br>West Berlin, NJ 08091 USA  |
|    | Phone                | 856-768-9600  |
|    | Email                | ixresin@resintech.com   |

### Section 2: Hazard Identification

2a OSHA Hazard classification Not hazardous or dangerous

| Product Hazard Rating | Scale          |
|-----------------------|----------------|
| Health = 0            | 0 = Negligible |
| Fire = 1              | 1 = Slight     |
| Reactivity = 0        | 2 = Moderate   |
| Special – N/A         | 3 = High       |
|                       | 4 = Extreme    |

2b Product description Amber, tan or black colored solid beads 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. Ingestion is not likely to pose a health risk.

2d Environmental effects Little or none.

**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.  
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West Berlin, NJ 08091-9234  
856 768-9600  
Ixresin@resintech.com

### 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.   |
| 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, 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.  |
| 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. |
| 7c | TSCA considerations | Ion exchange resins should be listed on the TSCA Inventory in compliance with State and Federal Regulations.   |

## Section 8: Exposure Controls/Personal Protection

- |    |                              |                                  |
|----|------------------------------|----------------------------------|
| 8a | OSHA exposure limits         | None noted.                      |
| 8b | Engineering Controls         | 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, tan, or black beads.           |
| Flammability or explosive limits        | Flammable above 500° C                |
| Odor                                    | None                                  |
| Physical State                          | Solid                                 |
| Vapor pressure                          | Not available                         |
| Odor threshold                          | Not available                         |
| Vapor density                           | Not available                         |
| 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                    |
| Partition Coefficient (n-octanol/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    | 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 <sub>3</sub> )   |
| 10e Hazardous Polymerization | 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.      |

## 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 31 March 2015