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
ResinTech, Inc.
Address
160 Cooper Road,
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

<table>
<thead>
<tr>
<th>Product Hazard Rating</th>
<th>Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health = 0</td>
<td>0 = Negligible</td>
</tr>
<tr>
<td>Fire = 1</td>
<td>1 = Slight</td>
</tr>
<tr>
<td>Reactivity = 0</td>
<td>2 = Moderate</td>
</tr>
<tr>
<td>Special – N/A</td>
<td>3 = High</td>
</tr>
<tr>
<td></td>
<td>4 = Extreme</td>
</tr>
</tbody>
</table>

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.
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
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 230º C. Auto ignition can occur above 500º C.
### Section 6: Accidental Release Measures

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>6a</td>
<td>Personal Precautions</td>
<td>Keep people away, spilled resin can be a slipping hazard, wear gloves and safety glasses to minimize skin or eye contact.</td>
</tr>
<tr>
<td>6b</td>
<td>Incompatible Chemicals</td>
<td>Strong oxidants can create risk of combustion products similar to burning.</td>
</tr>
<tr>
<td>6c</td>
<td>Environmental Precautions</td>
<td>Keep out of public sewers and waterways.</td>
</tr>
<tr>
<td>6d</td>
<td>Containment Materials</td>
<td>Use plastic, paper, or metal containers.</td>
</tr>
<tr>
<td>6e</td>
<td>Methods of Clean-up</td>
<td>Sweep up material and transfer to containers.</td>
</tr>
</tbody>
</table>

### Section 7: Handling and Storage

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7a</td>
<td>Handling</td>
<td>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.</td>
</tr>
<tr>
<td>7b</td>
<td>Storage</td>
<td>Store in a cool dry place (0º to 45º 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 50º C. Although freezing does not usually damage ion exchange resins, avoid repeated freeze thaw cycles.</td>
</tr>
</tbody>
</table>

### Section 8: Exposure Controls/Personal Protection

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>8a</td>
<td>OSHA exposure limits</td>
<td>None noted.</td>
</tr>
<tr>
<td>8b</td>
<td>Engineering Controls</td>
<td>Provide adequate ventilation.</td>
</tr>
<tr>
<td>8c</td>
<td>Personal Protection Measures</td>
<td>Safety glasses or goggles.</td>
</tr>
<tr>
<td></td>
<td>Eye Protection</td>
<td>Not required for normal use.</td>
</tr>
<tr>
<td></td>
<td>Respiratory Protection</td>
<td>Recommended for extended contact.</td>
</tr>
<tr>
<td></td>
<td>Protective Gloves</td>
<td></td>
</tr>
</tbody>
</table>
### Section 9: Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Amber, tan, or black beads.</td>
</tr>
<tr>
<td>Flammability or explosive limits</td>
<td>Flammable above 500º C</td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
</tr>
<tr>
<td>Physical State</td>
<td>Solid</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>Near neutral (6 to 8 typical)</td>
</tr>
<tr>
<td>Relative density</td>
<td>Approx 800 grams/Liter</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Does not melt, freezes at approx. 0 C</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water and most solvents</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Does not boil</td>
</tr>
<tr>
<td>Flash point</td>
<td>Approx 500º C</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Does not evaporate</td>
</tr>
<tr>
<td>Partition Coefficient (n-octanol/water)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Approx 500º C</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Above 230º C</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

### 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 HNO₃)

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

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