Section 1: Identification

1a Product Names
ResinTech SBG2, SBG2-HP, SBG2-UPS

1b Common Name
Type 2 Strong base anion resin in the chloride form.

1c Intended use
All general purpose anion exchanges for general use including water salt form 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 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
Light cream to light yellow 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.

Environmental effects
This product may alter the pH of any water that contacts it.
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  Dimethyl ethanolamine functionalized chloromethylated copolymer of polystyrene in the chloride form.

3b  Ingredients
- Dimethylamino ethanol functionalized chloromethylated copolymer of styrene and divinylbenzene in the chloride form  CAS# 69011-15-0 (35 - 65%)
- Water  CAS# 7732-18-5 (35 – 65%)

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

<table>
<thead>
<tr>
<th>6a</th>
<th>Personal Precautions</th>
<th>Keep people away, spilled resin can be a slipping hazard, wear gloves and safety glasses to minimize skin or eye contact.</th>
</tr>
</thead>
<tbody>
<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 or paper 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

<table>
<thead>
<tr>
<th>7a</th>
<th>Handling</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<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 45º 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

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

Appearance: Amber, yellow, or red beads approx. 0.6 mm diameter.

Flammability or explosive limits: Flammable above 500º C

Odor: Little or no odor

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 710 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 500º C

Evaporation rate: Does not evaporate

Partition Coefficient (n-octanol/water): Not applicable

Auto-ignition temperature: Approx 500º C

Decomposition temperature: Above 230º C

Viscosity: Not applicable

Section 10: Stability and Reactivity

10a Stability: Stable under normal conditions.

10b Conditions to Avoid: Heat, exposure to strong oxidants.


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, some transfer of causticity is possible.
- Ingestion: Oral toxicity believed to be low but no LD50 has been established.
- Inhalation: Amine vapors released in headspace above sealed containers can exceed recommended exposure levels for trimethylamine.

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, acidity or causticity may escape if wet.

12c Biodegradability
Not biodegradable.

12d Bioaccumulation
Insignificant.

12e Other adverse effects
Not Harmful to the environment.
### Section 13: Disposal Considerations

<table>
<thead>
<tr>
<th>13a</th>
<th>General considerations</th>
<th>Material is non-hazardous.</th>
</tr>
</thead>
<tbody>
<tr>
<td>13b</td>
<td>Disposal Containers</td>
<td>Most plastic and paper containers are suitable.</td>
</tr>
<tr>
<td>13c</td>
<td>Disposal methods</td>
<td>No specific method necessary.</td>
</tr>
<tr>
<td>13d</td>
<td>Sewage Disposal</td>
<td>Not recommended.</td>
</tr>
<tr>
<td>13e</td>
<td>Precautions for incineration</td>
<td>May release organic amines and toxic vapors when burned.</td>
</tr>
<tr>
<td>13f</td>
<td>Precautions for landfills</td>
<td>Resins used to remove hazardous materials may then become hazardous mixtures</td>
</tr>
</tbody>
</table>

### Section 14: Transportation Information

<table>
<thead>
<tr>
<th>14a</th>
<th>Transportation Class</th>
<th>Not classified as a dangerous good for transport by land, sea, or air.</th>
</tr>
</thead>
<tbody>
<tr>
<td>14b</td>
<td>TDG</td>
<td>Not regulated.</td>
</tr>
<tr>
<td>14c</td>
<td>IATA</td>
<td>Not regulated.</td>
</tr>
</tbody>
</table>

### Section 15: Regulatory Information

<table>
<thead>
<tr>
<th>15a</th>
<th>CERCLA</th>
<th>Not regulated</th>
</tr>
</thead>
<tbody>
<tr>
<td>15b</td>
<td>SARA Title III</td>
<td>Not regulated</td>
</tr>
<tr>
<td>15c</td>
<td>Clean Air act</td>
<td>Not regulated</td>
</tr>
<tr>
<td>15d</td>
<td>Clean Water Act</td>
<td>Not regulated</td>
</tr>
<tr>
<td>15e</td>
<td>TSCA</td>
<td>Not regulated</td>
</tr>
<tr>
<td>15f</td>
<td>Canadian Regulations</td>
<td>Not a controlled product</td>
</tr>
<tr>
<td></td>
<td>WHMIS</td>
<td>Not regulated</td>
</tr>
<tr>
<td></td>
<td>TDG</td>
<td>Not regulated</td>
</tr>
<tr>
<td>15g</td>
<td>Mexican Regulations</td>
<td>Not Dangerous</td>
</tr>
</tbody>
</table>
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 10 January 2020