### Section 1: Identification

1a Product Names

ResinTech SBG2-OH, SBG2-OH-NG, SBG2-OH-HP, SBG2-OH-UPS

1b Common Name

Type 2 Strong base anion resin in the hydroxide form.

1c Intended use

All general purpose anion exchanges where a hydroxide form strong base anion resin is desired.

1d Manufacturer

ResinTech, Inc.

1e Address

1801 Federal Street

Camden, NJ 08105 USA

1f Phone

856-768-9600

1g 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 = 1</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

Yellow, red or black colored solid beads approximately 0.6 mm diameter with moderate to strong amine odor.

2c Precautions for use

Safety glasses and gloves recommended. Slipping hazard if spilled.

2c Potential health effects

Will cause eye irritation. Will cause skin skin irritation. Ingestion is not likely to pose a health risk.

2d Environmental effects

This product may raise the pH of any water that contacts it.
Warning (contains hydroxide form strong base anion resin)

H315: Causes skin irritation (Category 2)
H319: Causes serious eye irritation (Category 2A)
H335: May cause respiratory irritation

Precautionary Statements
P264: Wash hands thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection
P284: In case of inadequate ventilation wear respiratory 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.
1801 Federal Street
Camden, NJ 08105 USA
856 768-9600
lxresin@resintech.com
### Section 3: Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>3a Chemical name</th>
<th>Dimethyl-ethanolamine functionalized chloromethylated polystyrene copolymer in the hydroxide form</th>
</tr>
</thead>
</table>
| 3b Ingredients   | Dimethylamino ethanol functionalized Chloromethylated copolymer of Styrene and divinylbenzene in the Hydroxide form  
Water | CAS# 69011-16-1 (35 - 55%)  
CAS# 7732-18-5 (45 – 65%) |

### Section 4: First Aid Measures

<table>
<thead>
<tr>
<th>4a Inhalation</th>
<th>No adverse effects expected from normal use of product. However, amine concentration in the head space above sealed containers can exceed OSHA recommended levels for trimethylamine.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4b Skin</td>
<td>Wash with soap and water- seek medical attention if a rash develops.</td>
</tr>
<tr>
<td>4c Eye contact</td>
<td>Wash immediately with water-seek attention if discomfort continues.</td>
</tr>
<tr>
<td>4d Ingestion</td>
<td>No adverse effects expected for small amounts, larger amounts can cause stomach irritation. Seek medical attention if discomfort occurs.</td>
</tr>
</tbody>
</table>

### Section 5: Fire Fighting Measures

<table>
<thead>
<tr>
<th>5a Flammability</th>
<th>NFPA Fire rating = 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>5b Extinguishing media</td>
<td>Water, CO₂, foam, dry powder</td>
</tr>
<tr>
<td>5c Fire fighting Procedures</td>
<td>Follow general fire fighting procedures indicated in the work place.</td>
</tr>
<tr>
<td>5d Protective Equipment</td>
<td>MSHA/NIOSH approved self-contained breathing gear, full protective clothing.</td>
</tr>
<tr>
<td>5e Combustion Products</td>
<td>Carbon oxides and other toxic gasses and vapors.</td>
</tr>
<tr>
<td>5f Unusual Hazards</td>
<td>Product is not combustible until moisture is removed. Resin begins to burn at approximately 230°C. Auto ignition can occur above 500°C.</td>
</tr>
</tbody>
</table>
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, exposure to strong acids can cause a rapid temperature increase.

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
Prolonged skin contact will cause burns due to causticity. 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 (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.

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
Not required for limited exposure but recommended for extended contact.
Section 9: Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Yellow, red or black beads approx. 0.6 mm diameter.</td>
</tr>
<tr>
<td>Flammability or explosive limits</td>
<td>Flammable above 500° C</td>
</tr>
<tr>
<td>Odor</td>
<td>Moderate to strong amine odor</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>Basic when mixed with water</td>
</tr>
<tr>
<td>Relative density</td>
<td>Approx 700 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 500° 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 500° C</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Above 230° 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
Dimethyl ethanolamine, charred polystyrene, aromatic acids and hydrocarbons, organic amines, nitrogen oxides, carbon oxides, chlorinated hydrocarbons.

10d Incompatible materials
Strong oxidizing agents (such as HNO₃), strong acids (such as HCl, H₂SO₄ etc)

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): Rash or burn caused by causticity.  
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 head space above sealed containers can exceed recommended exposure levels for trimethylamine.

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 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

13a General considerations  
Material is non-hazardous. However, unused material can cause a pH increase when wetted.

13b Disposal Containers  
Most plastic and paper containers are suitable. Avoid use of unlined metal containers.

13c Disposal methods  
No specific method necessary.

13d Sewage Disposal  
Not recommended.

13e Precautions for incineration  
May release dimethylethanolamine and toxic vapors when burned.

13f Precautions for landfills  
PH of spent resin may be high. 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 date 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