Section 1: Identification

1a  Product Name: ResinTech SIR-100-HP
1b  Common Name: Nitrate Selective strong base anion resin in the chloride form.
1c  Intended use: Removal of nitrates and perchlorate from water.
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: Light cream to light yellow 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. May cause mild skin 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
lxresin@resintech.com
Section 3: Composition/ Information on Ingredients

3a Chemical name
Tri-ethylamine functionalized chloromethylated copolymer of polystyrene in the chloride form.

3b Ingredients
- Tri-ethylamine functionalized chloromethylated copolymer of styrene and divinylbenzene in the chloride form
  CAS# 63453-90-7 (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

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 or paper containers.

6e Methods of Clean-up
Sweep up material and transfer to containers.

Section 7: Handling and Storage

7a Handling
Avoid prolonged skin contact. 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 50º 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Property Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Light cream to light yellow beads approx. 0.6 mm diameter.</td>
</tr>
<tr>
<td>Flammability or explosive limits</td>
<td>Flammable above 500º C</td>
</tr>
<tr>
<td>Odor</td>
<td>Little or no 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>Near neutral</td>
</tr>
<tr>
<td>Relative density</td>
<td>Approx 680 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 Triethylamine, 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 trimethylamine and 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