Section 1: Identification

1a Product Names
ResinTech PowerMax PXA10 Cl, PXA20 Cl, PXA40 Cl

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

1c Intended use
All general purpose anion exchanges for general use including 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
White, yellow, or orange 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.
Will cause skin skin irritation.
Ingestion is not likely to pose a health risk.

2d Environmental effects
This product may alter the pH of any water that contacts it.
WARNING

(contains ion exchange resin)

H320: Causes eye irritation

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
Trimethylamine functionalized chloromethylated copolymer of polystyrene in the chloride form.

3b Ingredients
- Trimethylamine functionalized chloromethylated copolymer of Styrene and divinylbenzene in the Chloride form
  CAS# 60177-39-1 (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. Seek medical attention if discomfort continues.

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

<p>| | | |</p>
<table>
<thead>
<tr>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>6a Personal Precautions</strong></td>
<td>Keep people away, spilled resin can be a slipping hazard, wear gloves and safety glasses to minimize skin or eye contact.</td>
<td></td>
</tr>
<tr>
<td><strong>6b Incompatible Chemicals</strong></td>
<td>Strong oxidants can create risk of combustion products similar to burning, exposure to strong bases can cause a rapid temperature increase.</td>
<td></td>
</tr>
<tr>
<td><strong>6c Environmental Precautions</strong></td>
<td>Keep out of public sewers and waterways.</td>
<td></td>
</tr>
<tr>
<td><strong>6d Containment Materials</strong></td>
<td>Use plastic or paper containers, unlined metal containers not recommended.</td>
<td></td>
</tr>
<tr>
<td><strong>6e Methods of Clean-up</strong></td>
<td>Sweep up material and transfer to containers.</td>
<td></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><strong>7a Handling</strong></td>
<td>Avoid prolonged skin contact. Keep resin moist and avoid allowing resin to completely dry.</td>
<td></td>
</tr>
<tr>
<td><strong>7b Storage</strong></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>
<td></td>
</tr>
<tr>
<td><strong>7c TSCA considerations</strong></td>
<td>Ion exchange resins should be listed on the TSCA Inventory in compliance with State and Federal Regulations.</td>
<td></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><strong>8a OSHA exposure limits</strong></td>
<td>None noted.</td>
<td></td>
</tr>
<tr>
<td><strong>8b Engineering Controls</strong></td>
<td>Provide adequate ventilation.</td>
<td></td>
</tr>
<tr>
<td><strong>8c Personal Protection Measures</strong></td>
<td>Safety glasses or goggles. Not required for limited exposure but recommended for extended contact.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Eye Protection</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Respiratory Protection</strong></td>
<td>Not required for normal use.</td>
<td></td>
</tr>
<tr>
<td><strong>Protective Gloves</strong></td>
<td>Not required for limited exposure but recommended for extended contact.</td>
<td></td>
</tr>
</tbody>
</table>
Section 9: Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Amber, yellow, or red 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 (6 to 8 typical)</td>
</tr>
<tr>
<td>Relative density</td>
<td>Approx 710 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          | Trimethylamine, 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, some transfer of acidity is possible.
- 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 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 change 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 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.


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  06 September 2016