### Section 1: Identification

1a Product Name  
ResinTech PowerMax PX550 OH, PX650 OH, PXA10 OH, PXA20 OH, PXA40 OH

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

1c Intended use  
All hydroxide for anion exchanges such as separate beds and mixed beds.

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 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 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 hydroxide form anion exchange 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
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  
Trimethylamine functionalized chloromethylated polystyrene copolymer in the hydroxide form.

3b Ingredients  
Trimethylamine functionalized chloromethylated copolymer of styrene and divinylbenzene in the hydroxide form  
CAS# 69011-18-3 (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 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. Amine vapors released in headspace above sealed containers can exceed recommended exposure levels for trimethylamine.

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.

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 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 Not required for limited exposure but recommended for extended contact.
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 | Moderate to strong amine odor
Physical State | Solid
Vapor pressure | Not available
Odor threshold | Not available
Vapor density | Not available
pH | Basic when mixed with water
Relative density | Approx 680 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.
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), 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
   Immediate (acute)
   Chronic
None known.
None known.
None known.

11c Toxicity Measures
   Skin Adsorption
   Ingestion
   Inhalation
   Unlikely, some transfer of acidity is possible.
   Oral toxicity believed to be low but no LD50 has been established.
   Unknown, vapors are very unlikely due to physical properties (insoluble solid).

11d Toxicity Symptoms
   Skin Adsorption
   Ingestion
   Inhalation
   Mild Rash.
   Indigestion or general malaise.
   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.
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           Not a controlled product
    WHMIS                           Not regulated
    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