Section 1: Identification

1a Product Names
ResinTech WACG, WACG-HP, WACG-HP-CA, WACMP

1b Common Name
Hydrogen form weak acid cation resin

1c Intended use
Removal of hardness and heavy metals, neutralization of alkaline solutions and other weak acid exchanges.

1d Manufacturer
ResinTech, Inc.
Address
1801 Federal Street
Camden, NJ 08105 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 = 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
White to light cream 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
This product may alter the pH of any water that contacts it.
WARNING
(contains hydrogen form Weak Acid Cation exchange resin)

H319: Causes serious eye irritation (Category 2A)
H315 Causes skin irritation (Category 2)

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.
1801 Federal Street
Camden, NJ 08105 USA
856-768-9600
lxresin@resintech.com
**Section 3: Composition/ Information on Ingredients**

3a Chemical name
Poly acrylic acid in the hydrogen form

3b Ingredients
- Poly acrylic acid in the hydrogen form
  - CAS# 9052-45-3 (30-60%)
- Water
  - CAS# 7732-18-5 (40-70%)

**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 Firefighting Procedures
Follow general firefighting 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, exposure to strong bases 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
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.

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.

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>White or cream colored 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>None</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>Acidic when mixed with water</td>
</tr>
<tr>
<td>Relative density</td>
<td>Approx 800 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                              Organic sulfonates, charred polyacrylate, aromatic acids and hydrocarbons, 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)
Rash or burn caused by acidity.
   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
Unknown, vapors are very unlikely due to physical properties (insoluble solid).

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 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. However, unused material can cause a pH decrease 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 dimethylamine and toxic vapors when burned.

13f Precautions for landfills  pH of spent resin may be low. 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  10 January 2020