Section 1: Identification

1a Product Names  ResinTech WACG, WACG-HP, 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  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 = 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.
160 Cooper Road
West Berlin, NJ 08091-9234
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 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, 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.

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
White or cream colored beads approx. 0.6 mm diameter.

Flammability or explosive limits
Flammable above 500° C

Odor
None

Physical State
Solid

Vapor pressure
Not available

Odor threshold
Not available

Vapor density
Not available

pH
Acidic when mixed with water

Relative density
Approx 800 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 500° C

Evaporation rate
Does not evaporate

Partition Coefficient (n-octanol/water)
Not applicable

Auto-ignition temperature
Approx 500° C

Decomposition temperature
Above 230° 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
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  
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 acids and toxic vapors when burned.

13f Precautions for landfills  
PpH 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.

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
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