Section 1: Chemical Product and Company Identification

Product Name: AG Anion Exchange Resin
Product Synonym(s): Analytical Grade Anion Exchange Resin, chloride form 1x4, Analytical Grade Anion Exchange Resin 1x8
Identified Uses: Laboratory chemicals, manufacture of substances
Manufacturer: Eichrom Technologies LLC
1955 University Lane
Lisle, Illinois 60532

24 Hour International Access Number: 1-813-248-0585
Australia: 1-300-954-583
Brazil: 0-800-591-6042
India: 000-800-100-4086
Mexico: 1-800-99-731

Section 2: Hazard(s) Identification

2.1 Classification of the substance or mixture
   GHS Classification of substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
   Skin Irritant and Mild Eye Irritant
   Respiratory Tract Irritation

2.2 GHS Label elements, including precautionary statements
   Pictogram: !
   Signal Word: Warning
   Hazard Statement(s):
   H315+H320 Causes skin irritation and eye irritation.
   H335 May cause respiratory irritation
   Precautionary Statement(s):
   Prevention:
   P261 Avoid breathing dust.
   P264 Wash hands thoroughly after handling.
   P271 Use only outdoors or in a well-ventilated area.
   P280 Wear protective gloves, clothing, and eye protection.
   Response:
   P302+P352 IF ON SKIN: Wash with plenty of soap and water.
   P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
   P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
   P312 Call a POISON CONTROL CENTER or doctor if you feel unwell.
   P332+P313 If skin irritation occurs, seek medical attention.
   P337+P313 If eye irritation persists, get medical attention.
   P362+P364 Take off contaminated clothing and wash before reuse.
   Storage:
   P403+P233 Store in a well-ventilated place. Keep container tightly closed.
   P405 Store locked up.
   Disposal:
   P501 Dispose of contents/container in accordance with federal, state, and local regulations.
### Section 3: Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Percentage Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Styrene, divinylbenzene and ethylstyrene copolymer, chloromethyl trimethylamine functionalized in the chloride form</td>
<td>69011-19-4</td>
<td>65-70%</td>
</tr>
<tr>
<td>De-ionized water</td>
<td>007732-18-5</td>
<td>30-35%</td>
</tr>
</tbody>
</table>

### Section 4: First-aid Measures

- **Ingestion**
  - Rinse mouth and call a POISON CONTROL CENTER or doctor if you feel unwell.

- **Skin Contact**
  - Wash immediately with soap and copious amounts of water. Remove and wash contaminated clothing promptly. If irritation develops, seek medical attention.

- **Eye Contact**
  - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - If eye irritation persists, get medical attention.

- **Inhalation**
  - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

- **Most important symptoms and effects, both acute and delayed**
  - No further relevant information available.

- **Indication of any immediate medical attention and special treatment needed**
  - Treat according to symptoms (decontamination, vital functions), no known specific antidote.

### Section 5: Firefighting Measures

- **Extinguishing Media**
  - Foam, CO2, Dry Chemical

- **Protective Equipment**
  - Wear positive pressure self-contained breathing apparatus and full personal protective equipment.

- **Special Hazards**
  - Possible combustion products include carbon oxides, nitrogen oxides, chlorine.

### Section 6: Accidental Release Measures

- **Personal precautions**
  - Avoid creating and breathing dust. See section 8.
  - Use proper personal protect equipment (specified in section 8)
  - Surface may be slippery.

- **Methods and materials for containment and clean-up**
  - Sweep up material and transfer to a suitable container for disposal.

- **Reference to other sections**
  - For disposal see section 13.

### Section 7: Handling and Storage

- **Conditions for safe handling**
  - Avoid repeated freeze-thaw cycles; beads may fracture. If frozen, thaw at room temperature.
  - Use mechanical exhaust if dust is formed.

- **Conditions for safe storage**
  - Normal warehouse storage in cool, dry area is satisfactory.
  - Storage temperature: 0 to 50 °C (32 to 122°F)
  - Recommended shelf Life: Use within 24 months
  - Preferred Storage temperature is in the lower half of the range given below.
  - Keep away from strong oxidizers.

- **Specific End Use(s)**
  - Apart from the uses mentioned in section 1 no other specific uses are stipulated.

### Section 8: Exposure Controls / Personal Protection

- **Control Parameters**
  - Contains no substances with occupational exposure limit values.

- **Exposure Controls**
  - Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product.
  - Do not eat, drink or smoke when using this product.

- **Eye protection**
  - Wear safety glasses.

- **Body protection**
  - Wear protective gloves and clothing.

- **Respiratory protection**
  - Do not breathe dust.
Section 9: Physical Properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Powder White to Yellow</td>
</tr>
<tr>
<td>Odor</td>
<td>Amine</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not Established</td>
</tr>
<tr>
<td>pH</td>
<td>Essentially neutral</td>
</tr>
<tr>
<td>Melting Point</td>
<td>0 °C (water); Not determined for solid</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>100 °C (water); Not determined for solid</td>
</tr>
<tr>
<td>Relative Density</td>
<td>44 lb/cuft</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water</td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>Not Established</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Explosion Limits</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability</td>
<td>Not flammable until all moisture is removed; resin starts to burn in flame at 230°C</td>
</tr>
<tr>
<td>Melting Point Temperature</td>
<td>Not established</td>
</tr>
<tr>
<td>Boiling Point Temperature</td>
<td>Not established</td>
</tr>
<tr>
<td>Relative Density</td>
<td>44 lb/cuft</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water</td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>Not Established</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>Not established</td>
</tr>
</tbody>
</table>

Section 10: Stability and Reactivity

Reactivity
No hazardous reactions if stored and handled as indicated.

Chemical Stability
Stable under normal handling and storage conditions.

Hazardous Reactions
No hazardous reactions are expected in normal laboratory use. Hazardous polymerization will not occur.

Conditions to Avoid
Exposure to elevated temperatures can cause product to decompose.

Materials to Avoid
Contact with strong oxidizers will degrade material.

Hazardous decomposition Products
Decomposition products depend upon temperature, air supply, and the presence of other materials. Decomposition products can include and are not limited to: Chlorinated hydrocarbons, aromatic compounds, hydrocarbons, hydrogen chloride, and organic amines

Section 11: Toxicology Information

Acute Toxicity
- Oral LD50 > 5,000 mg/kg (rat)
- Inhalation LC50 has not been determined.
- Dermal LD50 has not been determined.

Skin corrosion/irritation
Prolonged exposure not likely to cause significant skin irritation. May cause more severe response if skin is abraded (scratched or cut).

Serious eye damage/irritation
May cause slight temporary eye irritation. Solid or dust may cause irritation or corneal injury due to mechanical action.

Respiratory or skin sensitization
No relevant data found.

Germ Cell Mutagenicity
No relevant data found.

Carcinogenicity
No relevant data found.

Reproductive Toxicity
No relevant data found.

Specific Target Organ Toxicity
- Single Exposure: No relevant data found.
- Repeated Exposure: No relevant data found. Not anticipated to cause significant adverse effects.
- Aspiration Hazard: No data available regarding the aspiration hazard of this product.
Section 12: Ecological Information

Aquatic Toxicity
Not expected to be acutely toxic, but material in pellet or bead form may mechanically cause adverse effects if ingested by waterfowl or aquatic life.

Persistence and degradability
This water-insoluble polymeric solid is expected to be inert in the environment. Surface photodegradation is expected with exposure to sunlight. No appreciable biodegradation is expected.

Bioaccumulative potential
Partition coefficient, n-octanol/water (log Pow) is not applicable.

Mobility in Soil
In the terrestrial environment, material is expected to remain in the soil. In the aquatic environment, material will sink and remain in the sediment.

Section 13: Disposal Considerations

General
Avoid disposal to sewers and local waterways.

Unused:
Dispose of contents/container in accordance with federal, state, and local regulations.

Used:
Bury resin in licensed landfill or burn in approved incinerator equipped with an afterburner and scrubber according to local, state, and federal regulations.

Section 14: Transport Information

Air Transport:
Not Hazardous per IATA 2014

Ground Transport:
Not D.O.T. Hazardous

Water Transport:
Not Hazardous per IMDG 2012.

Section 15: Regulatory Information

Canada - DSL/NDSL
All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

US Federal Regulations
Toxic Substances Control Act (TSCA): All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30.

US State Regulations
To the best of our knowledge, no substances are listed on the following Right-to-Know State Lists: PA

This product contains no listed substances known to the state of California to cause cancer, birth defects, or other reproductive harm, at levels which would require a warning under California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act)

Section 16: Other Information

Revision
13-Oct-15: Cartridge Part Number added
29-May-15: Updated to GHS SDS format, including classification
1-Feb-2018: Update Emergency Phone Numbers

SDS Prepared By:
Eichrom Technologies LLC

The information set forth herein has been gathered from standard reference materials and is to the best knowledge and belief of Eichrom Technologies LLC, accurate and reliable. Such information is offered solely for your consideration, investigation and verification, and does not suggest or guarantee that the hazard precautions or procedures mentioned are the only ones that exist. Eichrom Technologies LLC makes no warranties, express or implied, with respect to the use of such information or the use of the specific material identified herein in combination with any other material or process, and assumes no responsibility therefore.