

SAFETY DATA SHEET

AG Anion Exchange Resin SDS

Revision Date: 29-May-15

Section 1: Chemical Product and Company Identification

Product Name AG Anion Exchange Resin

Product Number(s): A8-C50-M-CL, A8-DR10-C-CL, A8-DR10-F-CL, A8-DR10-M-CL, A8-DR5-I-CL, A8-R50-M-CL, A4-B500-C-CL, A4-B500-M-CL, A4-DR10-C-CL, A4-DR10-M-CL, A8-B500-C-CL, A8-B500-F-CL, A8-B500-M-CL

Product Synonym(s): Analytical Grade Anion Exchange Resin, chloride form 1x4, Analytical Grade Anion Exchange Resin

Identified Uses: Laboratory chemicals, manufacture of substances

Manufacturer: Eichrom Technologies LLC
1955 University Lane
Lisle, Illinois 60532

General Information: (8-5 CST M-F)
800-422-6693 (in USA)
630-963-0320

24 Hour Emergency Number:

CHEMTREC: 800-424-9300

Section 2: Hazard(s) Identification



GHS Signal Word: **Warning**

GHS Classification of substance or mixture: Mild Eye Irritant
Respiratory Tract Irritation
Skin Irritant

Hazard Statement(s): H320 Causes eye irritation
H335 May cause respiratory irritation
H315 Causes skin irritation

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 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

Component	CAS_Number	Percentage Range
Styrene, divinylbenzene and ethylstyrene copolymer, chloromethyl trimethylamine functionalized in the chloride form	69011-19-4	65-70%
De-ionized water	007732-18-5	30-35%

Section 4: First-aid Measures

Ingestion	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 eye irritation persists, get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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
Fire and Explosion Hazards	Possible combustion products include carbon oxides, nitrogen oxides, chlorine
Protective Equipment	Wear positive pressure self-contained breathing apparatus and full personal protective equipment.

Section 6: Accidental Release Measures

Personal precautions	Use proper personal protect equipment (specified in section 8) Surface may be slippery.
Methods and materials for containment and clean-up	Ventilate area and wash spill site after material pickup is complete.
Containment Cleanup	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

Specific End Use(s)	Apart from the uses mentioned in section 1 no other specific uses are stipulated.
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	Recommended shelf Life: Use within 24 months Preferred Storage temperature is in the lower half of the range given below. Storage temperature: 0 to 50 °C (32 to 122°F) Keep away from strong oxidizers. Normal warehouse storage in cool, dry area is satisfactory.

Section 8: Exposure Controls / Personal Protection

Control Parameters	Contains no substances with occupational exposure limit values.
Exposure Controls	Do not eat, drink or smoke when using this product Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product.
Eye protection	Wear safety glasses.
Skin Protection	Wear protective gloves and clothing
Respiratory protection	Do not breathe dust.

Section 9: Physical Properties

Information on basic physical and chemical properties

Appearance:	Powder White to Yellow	Explosion Limits (Upper/Lower):	Not applicable
Odor:	Amine	Flash Point:	Not applicable
Odor Threshold:	Not Established	Flammability:	Not flammable until all moisture is removed; resin starts to burn in flame at 230°C
pH:	Essentially neutral	Autolgnition Temperature:	above 500°C
Melting Point:	0 °C (water); Not determined for solid	Decomposition Temperature	Not Established
Boiling Point:	100 °C (water); Not determined for solid		
Relative Density:	44 lb/cuft	VaporPressure:	Not Established
Solubility:	Insoluble in water	VaporDensity:	Not Established
Partition Coefficient:	Not Established	Evaporation Rate:	Not established
Viscosity:	Not Applicable		

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 Effects	Oral LD50 > 5,000 mg/kg (rat)
Inhalation Effects	Inhalation LC50 has not been determined.
Dermal Effects	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	No data are available on the adverse effects of this material on the environment. 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. Dispose of contents/container in accordance with federal, state, and local regulations.
Unused:	Bury resin in licensed landfill or burn in approved incinerator equipped with an afterburner and scrubber according to local, state, and federal regulations.
Used:	For resin contaminated with hazardous materials, dispose of mixture as hazardous material 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

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

Section 16: Other Information

SDS Prepared By:	Eichrom Technologies LLC
Revision	Updated to GHS SDS format, including classification

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.