

# SAFETY DATA SHEET

AG Cation Exchange Resin SDS - (Hydrogen Form)

Revision Date: 29-May-15

## Section 1: Chemical Product and Company Identification

**Product Name** AG Cation Exchange Resin  
**Product Number(s):** C4-B500-M-H, C4-DR10-M-H, C8-B500-C-H, C8-B500-F-H, C8-B500-M-H, C8-DR10-C-H, C8-DR10-M-H, C8-R50-M-H  
**Product Synonym(s):** Analytical Grade Cation Exchange Resin, 8 % cross-linked; Analytical Grade Cation Exchange Res  
**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:** Skin Irritant  
Eye Irritant  
Respiratory Tract Irritation  
**Hazard Statement(s):** H315 Causes skin irritation  
H319 Causes serious eye irritation  
H335 May cause respiratory 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
Diethenyl-benzene polymer with ethenylbenzene, sulfonated	69011-20-7	65-70%
Water		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 IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Inhalation	Remove to fresh air. If breathing is labored, administer oxygen. If not breathing, give artificial respiration. Seek medical attention.
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	Use fire extinguishing methods suitable to surrounding conditions
Fire and Explosion Hazards	Possible combustion products include carbon oxides, and sulfur oxides
Protective Equipment	Wear positive pressure self-contained breathing apparatus and full personal protective equipment.

**Section 6: Accidental Release Measures**

	Use proper personal protect equipment (specified in section 8)
Methods and materials for containment and cleanup	Sweep up material and transfer to a suitable container for disposal.
Personal precautions	Avoid creating and breathing dust. See section 8. Surface may be slippery.
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	Normal warehouse storage in cool, dry area is satisfactory. Keep away from strong oxidizers. Preferred Storage temperature is in the lower half of the range given below. Storage temperature: 0 to 50 °C (32 to 122°F )

**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 Pale yellow spherical beads	Explosion Limits (Upper/Lower):	Not Applicable
Odor:	low to none	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:	Not applicable	Autolgnition Temperature:	Not Established
Melting Point:	0 °C (water); Not determined for solid	Decomposition Temperature:	above 500°C
Boiling Point:	100 °C (water); Not determined for solid	VaporPressure:	Not Established
Relative Density:	50 lb/cuft	VaporDensity:	Not Established
Solubility:	Insoluble in water	Evaporation Rate:	Not Established
Partition Coefficient:	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	No hazardous decomposition products if stored and handled as indicated. See also section 5.

**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**

No data are available on the adverse effects of this material on the environment.

**Section 13: Disposal Considerations**

General	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): This material is provided to you under the research and development (R&D) exemption.
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**Section 16: Other Information**

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

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