

Section 1. PRODUCT IDENTIFICATION

Product Identifiers

Product Name: BSR. Macroporous Chelating Resin, 420-1200um, Amino Phosphonic Acid, 500ml.

CAS number: Mixture

Product Part Numbers: BSR-05L

Synonyms: Chelating resin

Recommended use: Ion exchange resin, Brine softening, Metal removal, Laboratory chemicals.

Uses advised against: None known.

Details of the Supplier of the Safety Data Sheet:

Company: Sorbent Technologies

5955 Peachtree Corners East
Norcross, GA 30071 USA

Emergency Telephone Number: 1-866-767-2832

Section 2. HAZARD IDENTIFICATION

United States: According OSHA 29 CFR 1910.1200 HCS

GHS Classification of the Substance or Mixture including Precautionary Statements:

Emergency Overview: White spherical beads.

Potential Health Effects: Medical conditions aggravated by exposure: Not expected to be a health hazard.

Physical hazards: Not classified

Health hazards: Skin corrosion/irritation: Category 2

Environmental hazards: Aquatic toxicity

GHS Label Elements:

Hazard Symbol:



Signal word: Warning

Hazard statement: H316: Causes mild skin irritation.

H320: Causes eye irritation.

Precautionary Statement:

P210: Keep away from heat/sparks/open flames/hot surfaces.—No smoking.

P233: Keep container tight closed.

P234: Keep in original container.

P270: Do not eat, drink or smoke when using this product.

P281: Use personal protective equipment as required.

P402: Store in a dry place.

P403: Store in a well-ventilated place.

P404: Store in a closed container.

P352: Wash with plenty of soap and water.

Other Hazards Not Otherwise Classified (HNOC): Prevention: Wear eye protection/face protection.

Response: If in eyes: rinse with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison control center or doctor.

Storage: See section 7 for information on Safe Storage.

Supplemental information: None

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization:

Components	CAS No.	%
Cross linked polystyrene with aminophosphonic group	125935-42-4	30—40
Water.	7732-18-5	60—70

Synonyms: Ion exchange resin.

Section 4. FIRST AID MEASURES

Description of First Aid Measures

General information: Get medical advice/attention if you feel unwell.

Inhalation: No specific first aid measures noted.

Eye Contact: Any material that contacts the eye should be washed out immediately with. If easy to do, remove any contact lenses. Get medical attention if any discomfort continues.

Skin Contact: Wash skin with soap and water.

Ingestion: Immediately rinse mouth and drink and plenty of water (200-300ml). Large quantities: Get medical attention if irritation persists.

Description of Most Important Symptoms: No specific data.

Recommendations for Immediate Medical Care: No known significant effects or critical hazards.

General Information

Ensure that medical personnel are aware of the materials involved, and take precautions to protect themselves.

Section 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water fog, foam, dry chemicals, carbon dioxide (CO₂).

Unsuitable Extinguishing Media: Not applicable.

Specific Hazard in Case of Fire/Combustible Products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

Special Protective Equipment and Precautions for Firefighters: For fires in enclosed areas, wear self-contained breathing apparatus with full protective clothing.

Section 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Keep people away. Spillage of material may cause a slip hazard. Ensure adequate ventilation.

Personal Protective Equipment: Chemical resistant gloves, dust mask and safety shoes.

Environmental Precautions: Prevent from entering in soil, ditches, sewers, waterways or into ground water.

Methods and Materials for Clean-up: Sweep up as much as possible and transfer to plastic containers for recovery or disposal.

Reference to other sections:

See Section 7 for information on Safe Handling.

See Section 8 for information on Personal Protective Equipment.

See Section 13 for information on Disposal.

Section 7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with eyes and prolonged skin contact. Static electricity can accumulate on dry beads. Leave room for expansion as dry resin swell upon wetting and/or changing ionic form. Equipment construction material should be compatible with feed, referent, ionic form and effluent of the exchange process. Avoid contact with eyes. Avoid generating and breathing dust. Wash thoroughly after handling. Keep container closed. Good housekeeping and controlling dusts are necessary for safe handling of product.

Conditions for Safe Storage:

- Store at temperatures above 0 deg. C.
- Store at temperatures below 40 deg. C.
- Keep in original container.
- Keep container tightly closed to prevent the loss of water.
- Store away from incompatible materials.

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Information on the System Design: In case of regular work, provide local exhaust ventilation.

Occupational Exposure Limits: No exposure limits noted for mixture. Consult local authorities for recommended exposure limits.

Component	OSHA PEL	ACGIH TLV
Cross linked polystyrene with aminophosphonic group (125935-42-4)	Not established	Not established (TWA)

ACGIH is the American Conference of Governmental Industrial Hygienists

OSHA is the Occupational Safety and Health Administration

NIOSH is the National Institute of Occupational Safety and Health

PEL is the Permissible Exposure Limits established by OSHA.

TLV is the Threshold Limit Value a term ACGIH uses to express the maximum airborne concentration of a material to which most workers can be exposed during a normal daily and weekly work schedule without adverse effects.

Biological Limit: Not applicable.

Appropriate Engineering Controls: Use in well ventilated area with local exhaust.

Personal Protective Equipment:

Respiratory Protection: If engineering controls do not maintain air borne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established, an approved respirator must be worn.

Eye Protection: Wear safety glasses with side shields (or goggles).

Hand Protection: Chemical resistant gloves.

Skin protection: Use skin protection. It is good industrial hygiene practice to minimize skin contact.

Hygiene Measures: Always observe good personal hygiene measures, such a washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove Contaminants. Provide eyewash station and safety shower,

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Physical State:	Liquid or Solid (bead).
Color:	Faint to dark color.
Form:	Liquid or Spherical beads.
Odor:	Odorless.
Odor Threshold:	No data available.
pH:	Neutral aqueous slurry.
Melting Point/Range:	Not available.
Boiling Point/Range:	Not available.
Flash Point:	Not available.
Evaporation Rate:	Not available.
Flammability (solid, gas);	Not available.

Flammability or Explosive Limits

Upper:	Not available.
Lower:	Not available.
Vapor Pressure:	Not available..
Vapor Density (Air =1):	Not available.
Relative Density:	Not available.
Specific Gravity:	1.30 approx..
Solubility (water):	Insoluble.
Solubility (solvents):	Not available.
Partition Coefficient; n-octanol/water:	Not available.
Autoignition Temperature:	Not available.
Decomposition Temperature:	Not available
Viscosity:	Not available.

Section 10. STABILITY AND REACTIVITY

Reactivity: Not available.

Chemical Stability: Stable under recommended conditions of storage, see Storage Section 7.

Hazardous Decomposition Products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

Possibility of Hazardous Reactions: Not available.

Conditions to Avoid: Considered stable under normal conditions, avoid heat.

Materials to Avoid/Incompatible Materials: Incompatible with strong oxidizing substances. Contact with strong oxidizers, especially nitric acid, may low molecular weight organics that may form explosive mixture.

Section 11. TOXICOLOGICAL INFORMATION

Chemical and Toxicological Characteristics:

	Oral LD50	Dermal LD50	Inhalation LC50
Cross linked polystyrene with aminophosphonic group (125935-42-4)	>5000mg/kg (Rat)	>5000mg/kg (Rabbit)	Not applicable

Information on likely Routes of Exposure:

Eye contact: May irritate eyes on contact.

Skin contact.: May irritate skin on contact.

Inhalation: No specific data.

Ingestion: No specific data.

Acute Toxicity: No evidence of acute toxicity.

Sub chronic/Chronic Toxicity: No evidence.

Short and Long Term Exposure: No evidence.

Carcinogenicity: No evidence of carcinogenic effects.

Teratogenicity: No evidence of reproductive effects.

Mutagenicity: No evidence of mutagenic effects.

Summary Comments: May cause temporary/slight eye irritation or skin irritation.

Section 12. ECOLOGICAL INFORMATION

Aquatic Toxicity:

No data available.

Mobility in Soil:

The mixture is insoluble in water and will sediment in water systems.

Persistence/ Degradability:

The mixture is not readily biodegradable.

Bioaccumulation Potential:

Potential to bioaccumulation is low.

Other Adverse Effects:

No adverse effects.

Section 13. DISPOSAL CONSIDERATIONS

Spill/leak Procedures:

Isolate spill area to prevent falls as material can be a slipping hazard. Avoid contact with eyes and skin. Material is heavier than water and has limited water solubility. It will collect on the lowest surface.

Cleanup: Clean up floor area. Sweep up. Regulatory requirements: Follow all applicable Federal, State, Local, or Provincial regulations.

Disposal: The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled runoff and contact with soil, waterways, drains and sewers. Waste disposal should be in accordance with existing federal, state, provincial or local environmental control laws.

Special Precautions: Contaminated packaging: Empty containers should be taken to local recyclers for disposal. Refer to applicable federal, state, and local regulation.

Section 14. TRANSPORTATION INFORMATION

UN number: Not applicable.

UN proper shipping name: Not applicable.

Transportation Hazard Class: Ion exchange resins as supplied are not classified as hazardous for transport.

Classification for Road and Rail transport: Not regulated (not dangerous for transport).

Classification for Sea transport: Not regulated (not dangerous for transport).

Packing Group: Not applicable.

Marine Pollutant: No

Environmental Hazard: No.

Transportation in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

Special Precautions for User: No information available.

Section 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/ Legislation Specific for the Substance or Mixture International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICIS	IECSC	KECL
125935-42-4	X	X	-	-	-	-	X	X	X	X	-

X indicates listed

U.S. Federal Regulations

TSCA: CAS# 125935-42-4 listed on the TSCA inventory. Not regulated.

CERCLA Hazardous Substances and Corresponding RQs: None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances: None of the chemicals in this product have a TPQ.

SARA Codes: CAS# 125935-42-4

SARA 311/312 Hazardous Categorization:

Acute Health Hazard:	No
Chronic Health Hazard:	No
Fire Hazard:	No
Sudden Release of Pressure:	No
Reactive Hazard:	No

SARA Section 313: Not regulated

Clean Air Act:

This material does not contain any hazardous air pollutants, Class 1 Ozone depletors or Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances, Priority Pollutants or Toxic Pollutants under the CWA.

OSHA: Not applicable

CERCLA: Not applicable

U.S. Department of Transportation (DOT)

Reportable Quantity (RQ): No

DOT Marine Pollutant: No

DOT severe Marine Pollutant: No

U.S. Department of Homeland Security (DHS)

This product does not contain any DHS chemicals.

States Right-to-Know

CAS# 125935-42-4

California Prop 65: Not listed. This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm. Not regulated.

Massachusetts: Not regulated.

New Jersey Right to Know: Not regulated.

Pennsylvania: Not regulated.

Florida: No data.

Rhode Island: Not regulated.

Illinois: No data.

Connecticut - Hazardous Air pollutants: No data.

Canadian Controlled Products Regulations:

This mixture has been classified according to the hazard criteria of the Canadian Controlled Products Regulations, Section 2.1, and the SDS contains all required information.

WHMIS: Non-controlled.

DSL: Listed.

EEC Council Directives relating to the classification, packaging, and labeling of dangerous substances and preparations.

Risk and Safety Phrases: None

Mexico Dangerous Statement, This mixture is exempt from registration according to the Provisions of Title II and VI and Article 2(9) of REACH.

Section 16. OTHER INFORMATION

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to these products or handling of these products. Customers/users must comply with all applicable health and safety laws, regulations, and orders

SDS REVISION SUMMARY:

This document has been updated to comply with the U.S. OSHA HazCom 2012 Standard replacing the current Legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)