



SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product identifier : Strong Acid Cation Exchange Resin Sodium Form
Other identifier : C106, C107, C108, C110, C151 in sodium forms, and the variations of the above

1.2. Details of the supplier of the safety data sheet

Carbon Enterprises Inc.
PO Box 787
28205 Scippo Creek Rd
Circleville, OH 43113
800-344-5770

info@ceifiltration.com
ceifiltration.com

1.3. Emergency telephone number

Emergency number 740-420-6472
9:00 AM to 4:30 PM
Monday through Friday

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US Classification

Eye Irritation : 2B H320
STOT : SE 3 H335

2.2. Label elements

Classification (GHS-US)

This product is not classified as hazardous according to the criteria in the 2012 OSHA Hazard Communication Standard (29CFR 1910.1200).

Hazard statements (GHS-US) : H320 - May cause eye irritation
Precautionary statements (GHS-US) : P208 - Wear eye protection, protective clothing, protective gloves
Response statements (GHS-US) : P305 - IF IN EYES: Irrigate for 15 minutes
Storage statements (GHS-US) : P402 - Store in a dry place

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixture

Name	CAS No.	%
Sulfonated Copolymer of styrene and divinylbenzene in the sodium form	69011-22-9	35-65%
Water	7732-18-5	35-65%

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : No adverse effects anticipated by this route of exposure.
First-aid measures after skin contact : No adverse effects anticipated by this route of exposure
First-aid measures after eye contact : Immediately flush eyes with plenty of water for at least 15 minutes.
If irritation persists, get medical attention.

First-aid measures after ingestion : If the material is swallowed, get immediate medical attention or advice.
DO NOT induce vomiting unless directed to do so by medical personnel.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : No additional information available
Symptoms/injuries after skin contact : No additional information available
Symptoms/injuries after eye contact : No additional information available
Symptoms/injuries after ingestion : No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water, Talc, Dry Chemical
Unsuitable extinguishing media : None

5.2. Special hazards arising from the substance or mixture

Fire hazard : None known
Explosion hazard : None known
Special Hazards : By heating and fire, harmful vapors/gases may be formed

5.3. Advice for firefighters

Protection during firefighting : MSHA/NIOSH approved self-contained breathing gear. Firefighters should wear full protective gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Sweep up material and transfer to containers. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. Hazard of slipping on a spilled product.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). This product is insoluble in water.

6.3. Methods and material for containment and cleaning up

For containment : If possible, stop flow of product, move containers from spilled area.
Methods for cleaning up : Vacuum or sweep up material and place in designated, labeled waste container. Dispose of via a licensed water disposal contractor.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating, drinking and smoking. Put on appropriated personal protection equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store between: -20 to below 40°C (-4 to below 104°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible

Resin

Safety Data Sheet

Revision Date: 07/01/2021

materials (see Section 10) along with food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Empty containers or liners may retain some product residues. It is recommended to store ion exchange resins at temperatures above the freezing point of water.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment : Eye Protection (if contact is possible)



Hand protection : None required under normal product handling conditions

Eye protection : Safety glasses with side shields

Skin protection : Wear suitable working clothes

Respiratory protection : Not required for normal uses if irritation occurs from breathing-get fresh air.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Spherical Beads
Color	: Amber
Odor	: Odorless; may have amine odor
Odor threshold	: No data available
Ph	: 0-14
Relative evaporation rate	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Self-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor Pressure	: No data available
Relative Vapor density @ 20 deg C	: No data available
Relative Density	: No data available
Solubility	: Insoluble in water
Log Pow	: No data available

Resin

Safety Data Sheet

Revision Date: 07/01/2021

Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Exposure to >0.1 ppm of free chlorine, "hypochlorite" ions, or other strong oxidizing agents over long periods of time will eventually break down the crosslinking.

10.2. Chemical stability

Stable under normal conditions of storage

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid

None

10.5. Incompatible materials

Temperature over 30°C (85°F) will accelerate the oxidation. This will tend to increase the moisture retention of the resin, decreasing its mechanical strength, as well as generating small amounts of extractable breakdown products.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced

10.7. Hazardous combustion products

It is thermally stable to higher than 150°C (300°F) in the alkali or alkaline earth salt forms. The free acid form tends to hydrolyze in water temperatures appreciably higher than 120°C (250°F) thereby losing capacity, as the functional groups are gradually replaced by hydroxyl groups.

10.8. Hazardous by products

CO, CO₂, NH₃, amines, styrene, divinylbenzene.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
LD50 oral rat	: Single dose oral LD50 has not been determined. Single dose oral toxicity is believed to be low.
LC50	: Not classified
Acute toxicity estimates	: Not classified
Carcinogenicity/Mutagenicity	: No known significant effects or critical hazards
Reproductive effects	: No known significant effects or critical hazards
Neurotoxicity	: No known significant effects or critical hazards
Target organs	: No known significant effects or critical hazards
Other effects	: No known significant effects or critical hazards

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bio accumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

Resin

Safety Data Sheet

Revision Date: 07/01/2021

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste Treatment Methods

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: Sweep up.

Regulatory requirements: If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Disposal: Bury resin in licensed landfill or burn in approved incinerator according to local, state, and federal regulations. For resin contaminated with hazardous material, dispose of mixture as hazardous material according to local, state and federal regulations.

SECTION 14: Transport information

14.1. Land – DOT

UN/NA Identification Number:

UN Proper Shipping Name:

Transport Hazard Class:

Not regulated

Packing Group:

Marine Pollutant:

Hazard Class:

14.2. Water – IMO/IMDG

UN/NA Identification Number:

Un-Proprietary Shipping Name:

Transport Hazard Class:

Not regulated

Packing Group:

Marine Pollutant:

14.3. AIR-ICAO/IATA For product quantities less than 0.5 Kg

UN/NA Identification Number:

Un-Proprietary Shipping Name:

Transport Hazard Class:

Not regulated

Packing Group:

Marine Pollutant:

14.1. Other Information

Not dangerous cargo. Avoid temperatures below -20°C. Avoid heat above +40°C.

Keep separated from food items.

The substance is not subject to IMO IMDG CODE, could be shipped by sea without danger.

SECTION 15: Regulatory information

15.1. Regulations

OSHA : None

CAA : None

CERCLA : None

SARA : None

SARA HAZARD CATEGORIES 311/312 : Not applicable

TSCA : None

SECTION 16: Other information

16.1. Other information

NFPA health hazard : 0 – No hazard

Resin

Safety Data Sheet

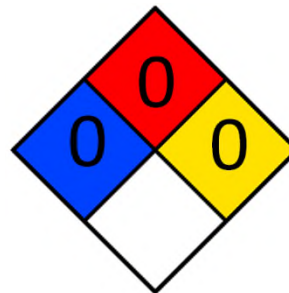
Revision Date: 07/01/2021

NFPA fire hazard : 0 – Materials that will not burn
NFPA reactivity : 0 – Normally stable, even under fire exposure conditions, and are not reactive with water

HMIS III Rating

Health : 0 No significant risk to health
Flammability : 0 Materials will not burn
Physical : 0 Materials that are normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive

Personal Protection : A



Resin

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