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

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS No.</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfonated Copolymer of styrene and divinylbenzene in the sodium form</td>
<td>69011-22-9</td>
<td>35-65%</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>35-65%</td>
</tr>
</tbody>
</table>

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 appropriate 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
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
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
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: Not regulated
Transport Hazard Class: Not regulated
Packing Group: Not regulated
Marine Pollutant: Not regulated
Hazard Class: Not regulated

14.2. Water – IMO/IMDG
UN/NA Identification Number: Not regulated
Un- Proper Shipping Name: Not regulated
Transport Hazard Class: Not regulated
Packing Group: Not regulated
Marine Pollutant: Not regulated

14.3. AIR-ICAO/IATA For product quantities less than 0.5 Kg
UN/NA Identification Number: Not regulated
Un- Proper Shipping Name: Not regulated
Transport Hazard Class: Not regulated
Packing Group: Not regulated
Marine Pollutant: Not regulated

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: 05/01/2018

<table>
<thead>
<tr>
<th>NFPA fire hazard</th>
<th>0 – Materials that will not burn</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFPA reactivity</td>
<td>0 – Normally stable, even under fire exposure conditions, and are not reactive with water</td>
</tr>
</tbody>
</table>

**HMIS III Rating**

<table>
<thead>
<tr>
<th>Health</th>
<th>0 No significant risk to health</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability</td>
<td>0 Materials will not burn</td>
</tr>
<tr>
<td>Physical</td>
<td>0 Materials that are normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive</td>
</tr>
<tr>
<td>Personal Protection</td>
<td>A</td>
</tr>
</tbody>
</table>

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