

Material Safety Data Sheet

Product Name: C106(001x6) series, C107(001x7) series, C108(001x8) series, C110(001x10) series, C112(001x12) series, Na Form, Gel Type, Strong Acid, Sodium Form Cation Exchange Resin(6-12% DVB), of various particle size range and resin bead colors

Effective date: 6/20/14

Company Address: General Technologies, SPC
2016 E. Spruce Circle
Olathe, KS 66062

Information Numbers:

Emergency Phone Number: 913-766-5566 / 816-590-9641

Fax Number: 253-663-9333

Email: info@gtspc.com

Website: <http://gtspc.com/ixchange/>

I. Identification of the substance or preparation and of the company/undertaking

Product Name: C106(001x6) series, C107(001x7) series, C108(001x8) series, C110(001x10) series, C112(001x12) series, Na Form, Gel Type, Strong Acid, Sodium Form Cation Exchange Resin(6-12% DVB), of various particle size range and resin bead colors.

Use of the substance/preparation: Ion Exchange, Adsorbent, and / or Catalysis

Chemical Name: Sodium polystyrene sulphonate

Ionic form: Sodium

Name of Supplier: General Technologies, SPC
Address of Supplier: 2016 E Spruce Circle, Olathe, KS 66062
Tel: 001-816-590-9641
Fax: 001-253-663-9333

2. Hazards identification

- Contact with eyes: Warning: Mildly irritating to eyes

US NFPA ratings

- Health: 1

- Flammability: 1

- Instability: 0

- Special: 0

3. Composition/information on ingredients

Chemical Name	Concentration	CAS Number	EC Number	R Phrases	Symbols
Sodium polystyrene sulphonate	40-65%	69011-22-9	-	R36	-
Moisture content	35-60%				

4. First aid measures

Contact with skin

- Remove contaminated clothing
- Wash affected area with plenty of water

Contact with eyes

- Mildly irritating to eyes
- If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
- Seek medical attention if irritation persists

Ingestion

- Give 200-300mls (half pint) water to drink
- Never give anything by mouth to an unconscious person
- Seek immediate medical attention
- Do not induce vomiting

Inhalation

- Remove patient to fresh air
- Seek medical advice

5. Fire-fighting measures

- Combustible solid
- In case of fire use water, foam, carbon dioxide or dry agent (S43)
- Substance evolves toxic fumes, wear self-contained breathing apparatus
- Wear full protective clothing including chemical protection suit
- Prevent run off water from entering drains if possible
- If polluted water reaches drainage systems or water courses, immediately inform appropriate authorities

6. Accidental release measures

Personal Precautions

- Keep people and animals away -
- Spillage causes slippery surface

Environmental Precautions

- Do not allow to enter public sewers and watercourses

Clean Up Actions

- Collect as much as possible in clean container for reuse or disposal
- See Section 13

7. Handling and storage

Handling

- No special precautions are required for this product

Storage

- Store above 0 °C
- Do not store above 40 °C
- Avoid dehydration (when rewetted the resin volume may increase and cause a rupture of the packaging)
- Keep only in the original container (S49)

8. Exposure controls and personal protection

Exposure controls

- No special precautions are required for this product

Occupational exposure controls

- No respiratory protection is required
- Wear rubber or PVC gloves
- Wear eye/face protection (S39)
- Wear suitable protective clothing (S36)

9. Physical and chemical properties

- Odour: Odourless
- Appearance: amber, brown, black, beads
- pH - not applicable
- Boiling point - not applicable
- Melting point - not applicable
- Insoluble in water
- Specific gravity - not known
- Combustible solid
- Partition coefficient: n-Octanol/water - not applicable
- Viscosity - not applicable

10. Stability and reactivity

- Considered stable under normal conditions
- Incompatible with strong oxidizing substances, Contact with strong oxidisers, especially nitric acid, may produce low molecular weight organics that may form explosive mixtures
- See Section 5

II. Toxicological information

Toxicological information

- LD50 (oral, rat) >5000 mg/kg
- Irritation to eyes: Irritant by mechanical action
- Irritation to skin (rabbit): None

Carcinogenicity

- No evidence of carcinogenic effects

Teratogenicity

- No evidence of reproductive effects

Mutagenicity

- No evidence of mutagenic effects

12. Ecological information

Ecotoxicity

- On available data, substance is not harmful to aquatic life

Mobility

- Insoluble in water

Persistence and Biodegradability

- Not readily biodegradable

Bioaccumulation Potential

- Bioaccumulation is insignificant

Other Adverse Effects

- On available data, substance is not harmful to the environment

13. Disposal considerations

Disposal considerations

- In accordance with local/regional/national/international regulation
- EU number for exhausted or saturated ion exchange resins used for the preparation of drinking water or water for industrial use is 19 09 05
- EU number for exhausted or saturated ion exchange resins used in waste water treatment plants not otherwise specified is 19 08 06

14. Transport information

- Not classified as hazardous for transport

15. Regulatory information

Classification and labelling

- Not classified as hazardous for supply

Applicable Laws

- CERCLA 40 CFR 302.4, RQ (US lbs): Not regulated
- EPCRA (SARA Title III) Section 302, TPQ (EHS) (US lbs): Not regulated
- EPCRA (SARA Title III) Section 311, 312 applicability: Not regulated
- EPCRA (SARA Title III) Section 313 Table II chemical list: Not regulated
- RCRA list of PBT substances, hazardous waste code: Not regulated
- CAA 112(r), TQ (US lbs): Not regulated
- TSCA Inventory: Listed
- OSHA PEL: None specified mg/m³; None specified ppm
- California Proposition 65: Not regulated

Risk Phrases

- Irritating to eyes (R36)

Safety Phrases

- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26)

16. Other information

Note 1: Industrial grade products are not intended for analytical, medical, food and pharmaceutical applications without preliminary extensive purification.

This Safety Data Sheet complies with Directive 91 /1 55/EEC.

Disclaimer: the information provided in this safety data sheet is based on current knowledge about the product and current legal requirements and standards. It relates specifically to health, safety and environmental requirements and standards, may not identify all hazards associated with the product or its uses or misuses, does not signify any warranty with regard to the properties of the product, and only applies when the product is used for the purposes indicated in section 1. This product is not sold as suitable for other purposes and such other usage may cause risks not mentioned in this safety data sheet.