

## MATERIAL SAFETY DATA SHEET

### ION EXCHANGE RESIN

#### Section 1- Chemical Product and Company Information

1} Product Name: Ion Exchange Resin (Cation Resin)

2} Company Information

- Distributor Company Name: Aventura Components FZE
- Address: SAIF Zone, Sharjah - UAE
- Tel: +971-65387105
- E-mail: adminfze@aventura.co.in

#### Section 2- Composition, Information on Ingredients

Ingredient	CAS#	EINECS#	Cone. %
Styrene divinylbenzene sulfonated copolymer	69011-22-9	No data available from ECHA	37-57
Water	7732-18-5	231-791-2	43-63

#### Section 3 - Hazards Identification

1) Globally Harmonized System of Classification and Labeling of Chemicals(GHS)

- Physical hazard: Not applicable
- Health hazard: Not applicable
- Environment hazard: Not applicable

2) Label elements including precautionary statements

- Symbol: Not applicable
- Signal word: Not applicable
- Hazard statements: Not applicable-
- Precautionary statements: Not applicable

3) US NFPA

- Health: 0, Flammability: 1, Reactivity: 0, Water reactivity: 0

## **Section 4- First Aid Measures**

- 1) In case of eye contact
  - Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- 2) In case of skin contact
  - Wash off with soap and plenty of water.
- 3) If inhaled
  - If breathed in, move person into fresh air.
  - If not breathing, give artificial respiration.
  - Consult a physician.
- 4) If swallowed
  - Never give anything by mouth to an unconscious person.
  - Rinse mouth with water.
- 5) Other medical attention
  - Medical personnel should be aware of the protective measures of the substance.
- 6) Potential health effect
  - May be harmful if swallowed

## **Section 5 - Fire, Fighting Measures**

- 1) Flammable properties
  - Flash point: No flash occurred under 93 °C (Rapid equilibrium method)
  - Autoignition temperature: No spontaneous combustion under 200 °C
  - Burning rate: Did not ignite (UN TDG test & criteria - Test N1)
- 2) Suitable extinguishing media
  - Water spray, alcohol-resistant foam, dry chemical, carbon dioxide
- 3) Specific hazards arising from the chemical
  - No data available
- 4) Special protective equipment for fire-fighters
  - Wear self-contained breathing apparatus for firefighting if necessary.

## **Section 6 - Accidental Release Measures**

- 1) Personal precautions
  - Ensure adequate ventilation
- 2) Environmental precautions
  - No data available
- 3) Methods and materials for containment and cleaning
  - Keep in suitable, closed containers for disposal.

## **Section 7 - Handling and Storage**

- 1) Precautions for safe handling
  - Avoid breathing dust.
  - Provide appropriate exhaust ventilation at places where dust is formed.
- 2) Conditions for safe storage
  - Store in a closed container.
  - Avoid direct sunlight, heat sources, and strong oxidizing agents.

## **Section 8 - Exposure Controls, Personal Protection**

- 1) Components with workplace control parameter
  - US ACGIH: No data available
- 2) Biological exposure limits: No data available
- 3) Appropriate engineering controls: No data available
- 4) Personal protective equipment
  - Respiratory protection: Dust mask for chemicals
  - Eye protection: Protective goggles for chemicals
  - Hand protection: Protective gloves
  - Skin and body protection: Working clothes for chemicals

## **Section 9 - Physical and Chemical Properties**

- 1) State: Solid (Granular) at 20°C
- 2) Odour and Odour threshold: No data available
- 3) PH: Neutral
- 4) Maximum service temperature: Na type < 120°C
- 5) Boiling point: No data available
- 6) Flash point: No flash occurred under 93°C (Rapid equilibrium method)
- 7) Evaporation rate: No data available
- 8) Flammable properties
  - Burning rate: Did not ignite ✕ UN TDG test & criteria - Test N1
- 9) Lower explosion limit, Upper explosion limit: No data available
- 10) Vapour pressure: No data available
- 11) Water solubility: Insoluble at 20°C
- 12) Vapor density: No data available
- 13) Partition coefficient (n-octanol, water): No data available
- 14) Autoignition temperature: No spontaneous combustion under 200°C
- 15) Decomposition temperature: No data available
- 16) Viscosity: No data available
- 17) Explosive properties: No self-reaction hazard ✕ UN TDG test & criteria - Test E3
- 18) Oxidizing properties: No data available
- 19) Molecular weight: No data available

## **Section 10 - Stability and Reactivity**

- 1) Chemical stability
  - Stable under general condition.
- 2) Conditions to avoid
  - Avoid breathing dust.
- 3) Materials to avoid
  - Strong oxidizing agents
- 4) Hazardous decomposition products
  - Carbon oxides, Sulfur oxides

## **Section 11 - Toxicological Information**

- 1) Information on the likely route of exposure
- 2) Information on health harmfulness
- 3) Acute toxicity
  - Oral rat LD50: No data available ※ from US NLM/ECHA
  - Skin rabbit LD50: No data available
  - Inhalation rat LC50(dust, 4h): No data available
- 4) Skin irritation: No data available
- 5) Eye irritation: No data available
- 6) Respiratory sensitization: No data available
- 7) Skin sensitization: No data available
- 8) Germ cell mutagenicity: No data available
- 9) Carcinogenicity: Not classifiable ※ from CCRIS/IARC
- 10) Reproductive toxicity: No data available
- 11) Specific target organ toxicity - single exposure (GHS): No data available
- 12) Specific target organ toxicity - repeated exposure (GHS): No data available
- 13) aspiration hazard: No data available

## **Section 12 - Ecological Information**

- 1) Toxicity
  - Fish LC50: No data available ※ from US NLM/ECHA
  - Crustacean EC50: No data available
  - Algae EC50: No data available
- 2) Persistence and degradability: No data available
- 3) Bio accumulative potential: No data available
- 4) Mobility in soil: No data available
- 5) Other adverse effects: No data available

## **Section 13 - Disposal Considerations**

- 1) Disposal consideration
  - Observe all environmental regulations.
- 2) Disposal precaution(including contaminated container and packaging method)
  - Keep in suitable, closed containers for disposal.

## **Section 14 - Transport Information**

- 1) UN TDG: Not dangerous goods
- 2) UN proper shipping name: Not dangerous goods
- 3) Dangerousness class: Not dangerous goods
- 4) Packing group (if possible): Not dangerous goods
- 5) Marine pollution(applicable or not applicable): Not applicable
- 6) Special precaution
  - Fire EmS Guide: F-A (Recommendation)
  - Spillage EmS Guide: Not dangerous goods

## Section 15 - Regulatory Information

- 1) European/International Regulations 2) European Labeling in Accordance with EC Directives
- 3) Hazard Symbols: Not available
- 4) Risk Phrases:
- 5) Safety Phrases:
- 6) S 24/25 Avoid contact with skin and eyes.
- 7) WGK (Water Danger/Protection)
  - Canada
  - US Federal
  - TSCA

## Section 16 - Other Information

- 1) Revision: 01/01/2021
- 2) Acronyms and Websites
  - ECHA: European chemical agency, <http://echa.europa.eu/>
  - US NLM: U.S. National Library of Medicine, <http://chem.sis.nlm.nih.gov/chemidplus/>
  - HSDB: U.S. Hazardous Substances Data Bank, <http://toxnet.nlm.nih.gov/>
  - CCRIS: U.S. Chemical Carcinogenesis Research Information System, <http://toxnet.nlm.nih.gov/>
  - IARC: International Agency for Research on Cancer, <http://monographs.iarc.fr/>

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