# Safety Data Sheet

# TRILITE® SCR-B

Strong Acid Cation Exchange Resin

### 1. PRODUCT AND COMPANY INFORMATION

1) Product name: TRILITE® SCR-B

2) Recommended use of the chemical and restrictions on use

- Recommended use: Ion exchange resin

- Restrictions on use: It is inedible

3) Company information

- Company: Samyang corporation ion exchange resin sales team

- Address: #31 Jongno 33-gil, Jongno-gu, Seoul 03129, Korea

- Telephone: +82-2-740-7732

- Fax: +82-2-740-7790

- E-Mail: trilite@samyang.com

- Homepage: www.samyangtrilite.com

### 2. HAZARDS IDENTIFICATION

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

Physical hazard: Not applicableHealth 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

# 3. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	EINECS No.	Conc. %
Diethenylbenzene polymer with ethenylbenzene	69011-22-9	No data available	46±5
and ethenylethylbenzene, sulfonated, sodium salts		from ECHA	
Water	7732-18-5	231-791-2	54±5

#### 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.

## 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.

# **6. ACCIDENTAL RELEASE MEASURES**

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

### 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.

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

- 1) Components with workplace control parameter
  - KOSHA: No data available
  - 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

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

- 1) State: Solid(Granular) at 20°C
- 2) Odour and Odour threshold: No data available
- 3) pH:  $6.8 \sim 7.8$  at  $20^{\circ}$ C $\times$  Sample: $H_2$ O = 1:5(V/V)
- 4) Melting point, Freezing range (Initial): > 80°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 X 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) Density: 1.3 at 20°C
- 14) Partition coefficient (n-octanol, water): No data available
- 15) Autoignition temperature: No spontaneous combustion under 200°C
- 16) Decomposition temperature: No data available
- 17) Viscosity: No data available
- 18) Explosive properties: No self-reaction hazard X UN TDG test & criteria Test E3
- 19) Oxidizing properties: No data available
- 20) Molecular weight: No data available

# 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

#### 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 X from US NLM/ECHA
- Skin rabbitLD50: 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 X 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

#### 12. ECOLOGICAL INFORMATION

- 1) Toxicity
  - FishLC50: No data available X 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

## 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.

#### 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

# 15. REGULATORY INFORMATION

- 1) Korea Industrial Safety and Health Act (GHS): Not applicable
- 2) Korea Hazardous Materials Safety Control Act: Not hazardous material
- 3) Korea Chemicals Control Act: Not toxic chemical

4) Korea Persistent Organic Pollutants Control Act: Not applicable

5) US OSHA hazards(GHS): Not applicable

#### 16. OTHER INFORMATION

1) Issued Date: 2017. 7. 1

2) Revision No: 3.0

3) Revision Date: 2023. 4. 27

4) References

- GHS Classification: Korea MSDS Testing Lab Certificate(Report No. 2016-03-002455), US NLM
- Physical and chemical properties: Korea MSDS Testing Lab Certificate
- Transport information: Korea MSDS Testing Lab Certificate
- Toxic & ecological information: OECD SIDS, ECHA, US NLM, HSDB, IARC, CCRIS, JP NITE
- 5) 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/
  - JP NITE: Japan National Institute of Technology and Evaluation, http://www.safe.nite.go.jp/
- 6) Hazards Testing and Classification
  - Korea MSDS Testing Laboratory