

## Material Safety Data Sheet Ion Exchange Resin MR120

### Section 1 – Chemical Product and Manufacturer’s Information

- 1) Product Name: Ion Exchange Resin (Mixed Bed Resin)
- 2) Manufacturer’s Information
  - Manufacturer’s Information: E-ROTEK WATER SYSTEMS CO., LTD.
  - Address: No. 2, Nanyi Rd, Pingtung City, Pingtung County, 900543
  - Telephone: +886-8-751-1181 #12, #14
  - Email: [sales@rotekwater.com](mailto:sales@rotekwater.com)
  - Web: [www.rotekwater.com](http://www.rotekwater.com)

### Section 2 – Composition, Information on Ingredients

Ingredient	CAS#	EINECS#	Conc %
Polyvinyl benzyl trimethyl ammonium chloride	69011-22-9	No data available from ECHA	20-60%
Water	7732-18-5	231-791-2	40-80%

### 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

- limited inhalation hazard at normal work temperatures

4) If swallowed

- under normal conditions of intended use, this material does not pose a risk to health.  
However, ingestion may cause irritation and malaise

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

- NFPA Rating Fire=1

2) Suitable extinguishing media

- Extinguish with foam, carbon dioxide, dry powder or water fog

3) Specific hazards arising from the chemical

- Monomers, residual organics, amines, carbon and nitrogen oxides

4) Special protective equipment for fire-fighters

- Wear self-contained breathing apparatus for firefighting if necessary.

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

1) Personal precautions

- Keep people away  
- Spillage causes slippery surface

2) Environmental precautions

- Do not allow to enter public sewers and watercourses

3) Methods and materials for containment and cleaning

- Sweep up as much as possible and transfer to plastic containers for recovery or disposal

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

1) Precautions for safe handling

- Avoid contact with eyes and prolonged skin contact.  
- 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 (Bead)
- 2) Odor and Odor threshold: No data available
- 3) PH: Neutral
- 4) Boiling point: No data available
- 5) Flash point: Not data available
- 6) Evaporation rate: No data available
- 7) Flammable properties
  - Burning rate: Did not ignite ✕ UN TDG test & criteria - Test N1 8) Lower explosion limit, Upper explosion limit: No data available 9) Vapor pressure: No data available
- 10) Water solubility: Insoluble
- 11) Vapor density: No data available
- 12) Partition coefficient (n-octanol, water): No data available
- 13) Autoignition temperature: No data available
- 14) Decomposition temperature: No data available
- 15) Viscosity: No data available
- 16) Explosive properties: No self-reaction hazard ✕ UN TDG test & criteria - Test E3 17) Oxidizing properties: No data available 17) Molecular weight: No data available

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

- 1) Chemical stability
  - Stable under general condition
- 2) Conditions to avoid
  - Avoid heat
- 3) Materials to avoid
  - Strong oxidizing agents. Contact with strong oxidizers, especially nitric acid, may producer low molecular weight organics that may form explosive mixtures
- 4) Hazardous decomposition products
  - At elevated temperatures: monomers, residual organics, amines, carbon and nitrogen oxides

## **Section 11 - Toxicological Information**

- 1) Information on the likely route of exposure
- 2) Information on health harmfulness
- 3) Acute toxicity
  - No evidence of acute toxicity
- 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) Irritation hazard: No data available

## **Section 12 - Ecological Information**

1) Toxicity

- No data available

2) Persistence and degradability: the mixture is not readily biodegradable

3) Bio accumulative potential: potential to bioaccumulate is low

4) Mobility in soil: the mixture is insoluble in water and will sediment in water systems 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) DOT Not regulated

2) TDG Not regulated

3) IATA Not regulated

4) IMDG Not regulated

## **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

IMDG/IMO: not regulated

## **Section 16 - Other Information**

1) Revision: 01/03/2023

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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