

Revision Date: 30/11/2024

1. IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND OF THE COMPANY

Identification of the substance / preparation:

Product Name Xi+

Chemical Name Crosslinked Polystyrene with Sulphonic acid and quaternary amine functionality

Ionic Form H⁺ / OH⁻

Use of the substance/preparation

Main use Water Purification

Identification of the Company :

Company undertaking Identification ELEXION WATER TREATMENT LIMITED

Address Unit 3, The Glenmore Centre
Fancy Road
Poole
BH12 4FB

Telephone +44 (0)1256 678 268

Supplier ELEXION WATER TREATMENT LIMITED

Address Unit 3, The Glenmore Centre
Fancy Road
Poole
BH12 4FB

Telephone +44 (0)1256 678 268

Emergency phone number

Telephone +44 (0)1256 678 268

2. COMPOSITION/INFORMATION ON INGREDIENTS

Description Concentration

Functionalised co-polymer 40 – 50% (Styrene/divinylbenzene)

Moisture content 50 – 60%

3. HAZARDS IDENTIFICATION

Contact with eyes Irritating to eyes (R36)

Contact with skin Mildly irritating to skin.

Ecological hazards May change the pH of receiving waters in case of major spillages.



4. FIRST AID MEASURES**Contact with skin**

Remove contaminated clothing.
Remove particles and wash affected area with water.

Contact with eyes

Immediately wash out with plenty of water and remove all particles.
Seek medical attention if irritation persists.

Ingestion

Give 200 – 300 ml water to drink.
Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Inhalation

Remove patient to fresh air. Seek medical advice.

5. FIRE- FIGHTING MEASURES

In case of fire, use foam, carbon dioxide or dry agent. Substance evolves toxic fumes, wear self-contained breathing apparatus (see Section 10). Wear full protective clothing including a 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 away.
Floor may be slippery, take care to avoid falls.

Environmental precautions

Do not allow to enter public sewers and water courses.

Clean up actions

Sweep-up and transfer to plastic containers for recovery or disposal, according to the advice in section 13.

7. HANDLING AND STORAGE**Handling**

The usual precautions for handling chemicals should be observed.
Risk of static discharge from dry beads.

Storage**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Exposure controls**

No special precautions are required for this product.

Occupational exposure controls**Respiratory protection**

Not required for normal operation.

Hand protection

Wear suitable gloves.

Eye protection

Wear safety glasses or goggles. An eyewash facility should be available.

Skin protection

Wear chemical protective overalls.



9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance	Yellow to brown coloured spherical beads
Physical state	Solid
Odour	No odour

Important information for human health, safety and environment

pH as supplied	Neutral in aqueous slurry
Boiling point	Not applicable
Flammability point	The preparation starts burning over 230° C only if ignited.
Flammability	The preparation is not flammable before the evaporation of moistening water

Explosive properties	None
Burning properties	None
Specific gravity	1.15, approximately
Solubility	In water : virtually insoluble In oil : insoluble

Partition coefficient n-octanol/water	Not applicable
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Viscosity	Not applicable
Flash point	Not applicable
Melting point	Not applicable
Auto-ignition temperature	Over 500° C

10. STABILITY AND REACTIVITY

Conditions to avoid	This material is considered stable under normal conditions.
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Materials to avoid	Incompatible with strong oxidizing agents. Contact with strong oxidizers, especially nitric acid, may produce low molecular weight organics that may form explosive mixtures.
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Hazardous decomposition products	Combustion products may include monomers, residual organics, carbon and Sulphur oxides.
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11. TOXICOLOGICAL INFORMATION

Toxicological Information

LD 50 (Oral, Rat) : Not applicable
 LD 50 (dermal, rabbit) : Not applicable LC50 (inhalation, rat)
 : Not applicable Irritation to eyes (rabbit) : Slightly Irritating
 Skin corrosion / irritation (rabbit) : No data available Ignition : No
 hazards anticipated if material has not exchanged hazardous
 substances.

Carcinogenicity

No evidence of carcinogenic effects.

Teratogenicity

No evidence of teratogenic effects.

Mutagenicity

No evidence of mutagenic effects.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Information not available.

Mobility

Virtually insoluble in water. The product is not volatile.

Persistence and biodegradability

The product is not readily biodegradable

Risk of bioaccumulation

None

Other adverse effects

May change the pH of receiving waters in case of major spillages.

13. DISPOSAL CONSIDERATIONS

The product as delivered is a non-hazardous waste.

The used product may be subject to different classifications. In any case the product shall be disposed of according to local, regional and national regulations.

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 specialised is 19 08 06.

14. TRANSPORT INFORMATION

Ion exchange resins as supplied are not classified as hazardous for transport.

Classification for ROAD and RAIL transport: Not regulated (Not dangerous for transport)

Classification for SEA transport: Not regulated (Not dangerous for transport)

Classification for AIR transport: Not regulated

(Not dangerous for transport)



15. REGULATORY INFORMATION

Risk phrases

The product as supplied is non hazardous.

R 36 : Irritating to eyes.

S 26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 39 : Wear eye/face protection

16. OTHER INFORMATION

Note :

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

Whilst every effort has been made to be as accurate as possible, eleXion Water Treatment Limited provides no warranty with respect to this information and disclaims all liability associated with its use.

