

MATERIAL SAFETY DATA SHEET

Revision Date : 30/04/2023

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

Identification of the substance / preparation :

Product Name	INDION RS - F
Chemical Name	Crosslinked Polystyrene
Ionic Form	Not applicable
Use of the substance/preparation	
Main use	Ion exchange / Water Purification

Identification of the Company :

Company undertaking	ION EXCHANGE (INDIA) LIMITED
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Identification

Address	Ion House, Dr. E. Moses Road, Mahalaxmi, Mumbai 400 011.
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Telephone	+91(022) 6231 2000
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Telefax	+91(022) 2493 8737
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Supplier	ION EXCHANGE (INDIA) LIMITED
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Address	Ion House, Dr. E. Moses Road, Mahalaxmi, Mumbai 400 011.
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Emergency phone number

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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

Incase 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 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 advise in section 13.

7. HANDLING AND STORAGE

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

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 Opaque off white 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 1.2, approximately
Solubility In water : virtually insoluble
 In oil : insoluble
Partition coefficient n-octanol/water Not applicable
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.

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.

Hazardous decomposition products

Combustion products may include monomers, residual organics, carbon and sulphur oxides.

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.
No evidence of carcinogenic effects.
No evidence of teratogenic effects.
No evidence of mutagenic effects.

Carcinogenicity

Teratogenicity

Mutagenicity

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 off, 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 specialized 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, Ion Exchange (India) Limited provides no warranty with respect to this information and disclaims all liability associated with its use.