

MATERIAL SAFETY DATA SHEET

Revision Date :

2.

3.

30/04/2023

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

Product Name	INDION NSSR
Chemical Name	Crosslinked Polystyrene with quaternary ammonium functionality
Ionic Form	Chloride
Use of the substance/preparation	
Main use	Ion exchange / Water Purification
Identification of the Company :	
Company undertaking Identification	ION EXCHANGE (INDIA) LIMITED
Address	Ion House,
Address	Dr. E. Moses Road,
	Mahalaxmi, Mumbai 400 011.
Telephone	+91(022) 6231 2000
Telefax	+91(022) 2493 8737
Supplier	ION EXCHANGE (INDIA) LIMITED
Address	Ion House,
	Dr. E. Moses Road, Mahalaxmi, Mumbai 400 011.
Telephone	+91(022) 6231 2000
Telefax	+91(022) 2493 8737
	131(022) 2400 0101
Emergency phone number	
Telephone	+91(022) 6231 2000
COMPOSITION/INFORMATION ON I	NGREDIENTS
Description	Concentration
Functionalised co-polymer	45 – 55% (Styrene/divinylbenzene)
Moisture content	45 – 55%
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 majo 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. 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	Weer suitable gloves
Hand protection	Wear suitable gloves.
Eye protection	Wear safety glasses or goggles.



An eyewash facility should be available.

Skin protection

10.

Wear chemical protective overalls.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information	
Appearance	Off white 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	1.1, approximately
Solubility	In water : virtually insoluble In oil : insoluble
Partition coefficient n-octonol/water	Not applicable
Viscosity	Not applicable
Flash point	Not applicable
Melting point	Not applicable
Auto-ignition temperature	Over 500° C
STABILITYAND 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	Or short's construction in the large second se
	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. Carcinogenicity 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 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)



15.	REGULATORY INFORMATION	Classification for AIR transport: Not regulated (Not dangerous for transport)
		The product as supplied is non hazardous.
	Risk phrases	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.