

# 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 ASM

Chemical Name Crosslinked Polystyrene with quaternary ammonium

functionality

Impregnated with Iron compound

Use of the substance/preparation

Main use Arsenic removal from ground water

**Identification of the Company:** 

Company undertaking ION EXCHANGE (INDIA) LIMITED

Identification

Address Ion House,

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

**Emergency phone number** 

**Telephone** +91(022) 3989 0909

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Description** Concentration

**Functionalised co-polymer** 47 – 54 % (Styrene/divinylbenzene)

Moisture content 46 - 53 %

# 3. HAZARDS IDENTIFICATION

Contact with eyesIrritating to eyes (R36)Contact with skinMildly irritating to skin.

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

spillages.



#### 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

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.

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** 

Clean up actions

Do not allow to enter public sewers and water courses. 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

## **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** Reddish brown 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 Not applicable

n-octonol/water

Viscosity

Flash point

Melting point

Auto-ignition temperature

Not applicable

Not applicable

Over 500° C

# 10. 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

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

exchanged hazardous substances.

Skin corrosion / irritation (rabbit): No data available Ignition: No hazards anticipated if material has not

CarcinogenicityNo evidence of carcinogenic effects.TeratogenicityNo evidence of teratogenic effects.MutagenicityNo evidence of mutagenic effects.

12. ECOLOGICAL INFORMATION

EcotoxicityInformation not available.MobilityVirtually 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

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.

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