

MATERIAL SAFETY DATA SHEET

Revision Date : 01/06/2011

IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND OF THE COMPANY

<u>Identification of the substance / preparation :</u>

Product Name INDION 820

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 ION EXCHANGE (INDIA) LIMITED

Identification

Address Ion House,

Dr. E. Moses Road,

Mahalaxmi, Mumbai 400 011.

Telephone +91(022) 3989 0909 **Telefax** +91(022) 2493 8737

Supplier ION EXCHANGE (INDIA) LIMITED

Address Ion House.

Dr. E. Moses Road,

Mahalaxmi, Mumbai 400 011.

Telephone +91(022) 3989 0909 **Telefax** +91(022) 2493 8737

Emergency phone number

Telephone +91(022) 3989 0909

2. COMPOSITION/INFORMATION ON INGREDIENTS

Description Concentration

Functionalised co-polymer 39 – 46 % (Styrene / divinylbenzene)

Moisture content 54-61%

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.



4. FIRST AID MEASURES

Contact with skin Remove contaminated clothing.

Remove particles and wash affected area with water.

Contact with eyes

Remove particles and wash affected area with water.

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

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls

No special precautions are required for this product.

Occupational exposure controls

Respiratory protectionNot required for normal operation.

Hand protection Wear suitable gloves.



Wear safety glasses or goggles. Eye protection

An eyewash facility should be available.

Skin protection 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. The preparation is not flammable before the evaporation of **Flammability**

moistening water

Explosive properties None **Burning properties** None

Specific gravity 1.1, approximately

In water: virtually insoluble **Solubility**

> In oil: insoluble Not applicable

Partition coefficient n-octonol/water

Viscosity Not applicable Flash point Not applicable **Melting point** Not applicable Over 500° C **Auto-ignition temperature**

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

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.

12. ECOLOGICAL INFORMATION

Carcinogenicity

Teratogenicity

Mutagenicity

EcotoxicityMobility
Virtually insoluble in water.
The product is not volatile.

Persistence and biodegradabilityThe 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.

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.