

INDION® MB 115

Variants

INDION MB 115 resin is also available with the additional feature of colour change at exhaustion. Three variants of this colour indicating Indion MB 115 are available :

Indion MB 115 (GVI) Green to Violet

Indion MB 115 (BYI) Blue to Yellow

Indion MB 115 (GOI) Green to Orange

Packing

PVC Jars with inner liner bags	5 / 6 lts
LDPE lined bags	0.5 cft / 1 cft / 25 lts
HDPE lined bags	25 / 50 lts
HDPE drums	50 / 100 / 180 lts

Storage

Ion exchange resins require proper care at all times. Resins must never be allowed to become dry. Resins should therefore be always kept in shade. Since INDION MB 115 is supplied in highly regenerated condition, any exposure to atmospheric air must be avoided as this will convert it to the carbonate form. The resin packing should not be opened during storage.

Safety

Acid and alkali solutions used for regeneration are corrosive and should be handled in a manner that will prevent eye and skin contact. If any oxidising agents are used, necessary safety precautions should be observed to avoid accidents and damage to the resin.

INDION range of Ion Exchange resins are produced in a state of the art ISO 9001 and ISO 14001 certified manufacturing facilities at Ankleshwar, in the state of Gujarat in India. This product data sheet (issue 09/2008) replaces previous issues.

To the best of our knowledge the information contained in this publication is accurate. Ion Exchange (India) Ltd. maintains a policy of continuous development and reserves the right to amend the information given herein without notice.

INDION is the registered trademark



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M A T E R I A L S A F E T Y D A T A S H E E T

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First Issue Date 01.08.2004
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1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY

Identification of the substance / preparation

Product Name **INDION MB 115**
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 Address ION EXCHANGE INDIA LIMITED
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2. COMPOSITION/INFORMATION ON INGREDIENTS

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

Moisture content 50- 60%

CAS number ---

EINECS number ---

R phrases(see section 16) R 36

Symbols Xi

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 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	Store above 0° C. Keep at temperature not exceeding 40° C. Avoid dehydration (when rewetted the resin volume may increase and cause a rupture of the packaging). Keep only in the original container.

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

Mixture of yellow & Brown coloured Spherical beads

Physical state

Solid

Odour

No odour

Important information for human health, safety and environment

pH as supplied

Neutral

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

1.17– 1.19 (in water)

Solubility

In Water ; virtually insoluble

In oil ; insoluble

Partition coefficient

Not applicable

n-octanol/water

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) : NA
 LD 50 (dermal , rabbit) :Not applicable
 LC50(inhalation , rat) : Not applicable
 Irritation to eyes(rabbit) :Irritant by mechanical and chemical action.
 Irritation to skin(rabbit) : mildly irritating
 Ingestion : 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 special, hazardous waste. The used product, fully loaded with non-hazardous ions is a non-hazardous special waste, while the used product loaded with hazardous ions is a hazardous special waste. 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 specialized is 19 08 06.

14. TRANSPORT INFORMATION

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

The product loaded with hazardous ions is subject to transport regulations for hazardous wastes.

15. REGULATORY INFORMATION

Risk phrases	The product as supplied is classified 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.
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16. OTHER INFORMATION

Note 1:	Industrial grade products are not intended for analytical, food, medical and pharmaceutical applications without preliminary extensive purification.
Note 2:	This Material Safety Data Sheet has been written to comply with following directives:

R phrases	67/548/EEC , 88/379/EEC , 91/155/EEC , their revisions and amendments . R 36 : Irritating to eyes
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