



# Indion® 454 Ion Exchange Resin

# MATERIAL SAFETY DATA SHEET SDS/MSDS

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Indion® 454 Ion Exchange Resin

Product Code : 121430

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Industrial & for professional use only.

1.3 Details of the supplier of the safety data sheet

Company : Central Drug House (P) Ltd

7/28 Vardaan House Ansari Road Daryaganj New Delhi-110002

**INDIA** 

Telephone : +91 11 49404040

Email : care@cdhfinechemical.com

1.4 Emergency telephone number

Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

#### SECTION 2: Composition/Information on Ingredients

**Description** Concentration

Functionalised co-polymer > 88 % (Styrene / divinylbenzene)

Moisture content < 12 %

**SECTION 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.

#### **SECTION 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.

#### **SECTION 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.

#### **SECTION 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 advisce in section 13.

#### **SECTION 7: Handling and storage**

Handling The usual precautions for handling chemicals should be

observed.

Risk of static discharge from dry beads.

Storage

#### **SECTION 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.

# **SECTION 9: Physical and chemical properties**

**General information** 

**Appearance** Off - white coloured powder

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** 1.27, approximately

**Solubility** In water : virtually insoluble

In oil : insoluble Not applicable

Partition coefficient

n-octonol/water

**Viscosity** 

Flash point

**Melting point** 

Not applicable Not applicable Not applicable

Auto-ignition temperature Over 500° C

#### **SECTION 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.

### **SECTION 11: Toxicological information**

No data are available for this material. The information given is based on properties of materials with similar composition.

#### **Toxicological Information**

LD 50 (Oral, Rat): 3000 mg/kg of body weight

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

#### **SECTION 12: Ecological information**

EcotoxicityInformation not available.MobilityVirtually insoluble in water.The product is not volatile.

Risk of bioaccumulation None

Other adverse effects May change the pH of receiving waters in case of major

spillages.

#### **SECTION 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.

#### **SECTION 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)

**SECTION 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.

S39: Wear eye/face protection

**SECTION 16: Other information** 

#### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.