

Ion exchanger mixed bed resin

Material safety data sheet

1. Section 1: Name of the substance or mixture and the undertaking

1.1 Product identifier

Trade name or name of the mixture

ion exchanger mixed bed

resin Registration number

Not applicable

Further information

This mixture is to be used in accordance with the measures taken in Titles II and VI and Article 2(9) of the REACH Regulation exempted from registration

1.2 Relevant identified use of the substance or mixture and use that is not recommended

1.3 Use Ion exchange, absorbents and/or catalysts

Uses of which is discouraged None known

1.4 Details of the supplier providing the safety data sheet

1.5 Supplier

elector GmbH
Düsseldorfer Straße 287
42327 Wuppertal
Germany
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2. Section 2: Possible dangers

1. Classification of the substance or mixture

Classification in accordance with Directive 67/548/EEC or 1999/45/EC as amended
 Classification **Xi, R36**

2.1.1 Classification in accordance with (EC) Directive 1272/2008 as amended

Health hazard

Severe eye damage / eye irritation Category 2 Causes severe eye irritation

Hazard overview

Physical hazards	The product is not classified for physical hazards
Health hazard	Irritating the eyes
Environmental hazards	The product is not classified for environmental hazards
Special hazards	Causes severe eye irritation
Key symptoms	This product can cause burning, tearing, redness, swelling and blurred vision.

1. Labelling elements

Labelling in accordance with Regulation (EC) 1272/2008 as amended



Signal word	Attention
Warnings	Causes severe eye irritation
Safety	
Prevention	After handling, wash thoroughly, wear protective gloves/clothing and goggles/face protection
Reaction	AT CONTACT WITH THE EYES: Rinse gently with water for a few minutes. Remove existing contact lenses if possible. Continue to rinse. In case of prolonged eye-tearing: seek medical advice / seek medical attention .
Storage	Do not store near incompatible materials
Disposal	Disposal in accordance with local/regional/national/international regulations
Additional information on the label	None

2.2 Other hazards None

3. Section3: Composition / Indication of ingredients

3.1 Substance Not applicable

**3.2 Mixture
General information**

3.2.1 Not applicable

3.2.2 Chemical name	%	CAS-Nr. / EC No.	REACH Registration No.	Index No.	Note
Polystyrene sulfonic acid	20 - 30	69011-20-7	-	-	.
Classification	DSD:	Xi; R36			
	CLP:	Eye Irrit. 2; H319			
Quaternary ammonium Styroldivinylbenzene Copolymer in hydroxide form	20-30	69011-18-3	-	-	-
Rating:	DSD:	Xi;R36			
	CLP:	Eye Irrit. 2; H319			
Water	40-60	7732-18-5 231-791-2	-	-	-
Classification:	DSD:	-			
	CLP:	-			

DSD: Directive 67/548 EEC
CLP: Regulation No. 1272/2008

Notes on composition

The full text for R and H sentences is specified in section 16. All concentrations are expressed in percentage by weight, provided that the ingredient is not gas. Gas concentrations are expressed as percentages by volume.

4. Section 4: First Aid Measures

General Information

In case of discomfort, seek medical advice (if possible show this MSDS). Ensure that medical personnel are aware of the materials involved and take protective precautions.

4.1 Description of first aid measures

4.1.1 Inhale

Bring to the fresh air, calm down. In case of persistent complaints, seek medical attention

4.1.2 Skin

Immediately wash off with soap and plenty of water. If the irritation persists, seek medical attention

4.1.3 Eye

Immediately rinse with plenty of water for at least 15 minutes. If without difficulty possible, remove contact lenses. If eye irritation persists, seek medical treatment

4.1.4 Swallowed

Rinse the mouth thoroughly. Never administer fluid to an unconscious person. Do not initiate vomiting. Should vomiting occur, keep your head down so that no stomach contents get into the lungs. In case of persistent complaints, seek medical attention.

4.2 Main acute and delayed symptoms and effects

Eye contact: Irritation with redness, tearing, pain and/or visual impairment may occur in contact

4.3 References to emergency medical assistance or special treatment

Treat according to symptoms.

5. Section 5: Fire-fighting measures General fire

hazards

The product is non-flammable

5.1 Extinguishing

Suitable extinguishing agents:

Foam, carbon dioxide, extinguishing powder or water mist

Inappropriate extinguishing agents:

Unknown

5.2 Specific hazards posed by the substance or mixture

In case of heating or fire, harmful vapours/gases may develop

5.3 Advice for firefighting

Special protective equipment for firefighting

Heavy breathing apparatus and protective clothing

Special fire-fighting measures

Do not inhale explosion and fire gases. Remove the container from the fire area as far as this is possible without danger. Discharge of fire extinguishing materials, even in diluted form, does not enter water bodies that allow sewers or drinking water reservoirs to enter.

6. Section 6: Measures in the event of unintentional Release

6.1 Personal precautions, protective equipment and procedures to be used in emergencies

6.1.1 Personnel not trained for emergencies

Avoid contact with the skin and eyes. Regarding protective equipment Section 8 of the SDS

6.1.2 Environmental protection

Prevent further leakage or spillage if this is possible without danger. Cover with plastic film to prevent further spreading. Do not allow to enter drains, sewers or waterways.

6.2 Methods and material for retention and cleaning

Avoid dust formation during cleaning work. Resupply or soak up spilled material and place it in suitable containers for disposal. Collect leaked material and dispose of it as described in section 13 of the SDS.

6.3 Reference to other sections

Regarding personal protective equipment, observe section 8 of the SDS. Observe section 13 of the SDS when disposing of it.

7. Section 7: Handling and storage

7.1 Protective measures for safe handling

Use with sufficient ventilation. Wear protective clothing as described in section 8 of this SDS. Observe recognised commercial hygiene measures.

7.2 Conditions for safe storage taking into account intolerances

Keep the container tightly closed in a dry, cool and well-ventilated place

7.3 Specific end-applications

Ion exchange, absorbents and/or catalyst

8. Section 8: Limit And Monitoring The Exhibition / Personal Protective equipment

8.1 Parameters to monitor

8.1.1 Arbeitsplatzgrenzwerte

No exposure limits are given for the ingredients or ingredients

8.1.2 Recommended monitoring method

Follow standard monitoring procedures

8.1.3 DNEL

Not available

8.1.4 PNEC

Not available

8.2 Limitation of exposure monitoring

8.2.1 Suitable technical control devices

Ensure sufficient ventilation

8.2.2 Individual protective measures, e.g. personal protective equipment

General information

Personal protective equipment must be used in accordance with the applicable CEN standards and by agreement with the suppliers of personal protective equipment.

Eye / Face Protection

If contact is probable, goggles with side protection are recommended.

Guard

Protective gloves should be worn to avoid skin contact. Suitable protective gloves are recommended by the glove supplier.

Other

Wear appropriate protective clothing to avoid repeated or prolonged skin contact.

Respiratory

Normally no personal respiratory protection required

Thermal hazards

Unknown

Hygiene measures

Avoid contact with the eyes. The usual precautions when handling chemicals must be observed. Always maintain good personal hygiene, e.g. Wash regularly after handling the material and before eating, drinking and/or smoking, wash work clothes and protective equipment regularly to remove contamination.

8.2.3 Limitation and monitoring of environmental exposure

When large quantities leave, environmental protection must always be notified.

9. Section 9: Physical and Chemical Properties

9.1 Information on the basic physical and chemical properties

Appearance:	beads
Physical condition:	Solids
Shape:	Beads
Color:	White Cream, Amber, Brown
Smell:	Odourless
Smell threshold:	is not available
pH:	Acid / Alkaline
Melting point / freezing point:	is not available sieve
point, sieve start and sieve area:	is not available Flash point: not applicable
Self-ignition temperature:	not applicable
Flammability (solid, gas):	is not available
Flammability limit - lower (%):	is not available
Flammability limit - upper (%):	is not available Oxidizing properties: not applicable
Explosive properties:	not applicable
Explosion limit:	not applicable
Steam pressure:	not applicable
Steam density:	not applicable
Evaporation speed:	not applicable
Relative Density:	1.05 - 1.28
Solubility in water:	insoluble
Distribution coefficient (n-octanol/water):	es no data available
Decomposition temperature:	not available
Viscosity:	not available
Percentage of volatile components:	steht not available

9.2 Other information

No relevant additional data available.

10. Section 10: Stability and Reactivity

10.1 Reactivity

The product is stable and not reactive under normal conditions of use, storage or transport.

10.2 Chemical stability

The material is stable under normal conditions.

10.3 Possibility of dangerous reactions

No dangerous reactions known when handled as intended.

10.4 Conditions to avoid

Heat, sparks, flames and higher temperatures

10.5 Incompatible materials

Strong oxidizing agents. Nitric acid

10.6 Dangerous decomposition products

Thermal decay or combustion can release carbon dioxide and other toxic gases and vapours.

11. Toxicological

Information General

Information

Exposure to the substance or mixture may cause harmful effects on health.

Information on probable exposure routes of ingestion

May cause discomfort when swallowed

Inhale

Under normal intended use, this material is not likely to be harmful when inhaled. Das Inhalation of dustcane can cause irritation of the respiratory tract.

Skin

May cause mild skin irritation

Eye

Causes severe eye irritation

Symptoms

Eye contact: Irritation with redness, tearing, pain and/or visual impairment may occur in contact

11.1 Information on toxicological effects

11.1.1 Not applicable

11.1.2 Mixture

Acute Toxicity

May cause discomfort when swallowed

Skin corrosion/irritation

Prolonged skin contact can cause temporary irritation.

Severe eye damage/eye irritation

Causes severe eye irritation Respiratory

sensitization

Not subject to labelling

Keimzellenmutagenität

Not subject to labelling

Karzinogenität

Not subject to labelling

Reproduktionstoxizität

Not subject to labelling

Specific toxicity once exposure

Not subject to labelling

Specific toxicity repeated exposure Non-

labeling risk **of aspiration**

Not subject to labelling

Mixture-related versus substance-related claims

is not available

Other information

is not available

12. Section 12: Environmental Information

12.1 Toxicity

No toxicity data are given for the ingredients or ingredients.

12.2 Persistence and degradability

No data is available

12.3 Bioakkumulationspotenzial

No data is available

Mobility

No data is available

Distribution in the environment - distribution coefficient

No data is available

12.4 Mobility in the ground

No data is available

12.5 Results of the PBT and vPvB assessment

no PBT or vPvB mixture or substance

12.6 Other harmful effects

Product is not classified as an environmentally hazardous substance. However, this does not exclude the possibility that large quantities of spills or, if something is spilled more often, could have a dangerous or harmful effect on the environment.

13. Section 13: Disposal Notes

13.1 Methods of waste removal

Eliminate in compliance with local government regulations

Contaminated packaging material

Empty containers of a recognised waste disposal facility for recovery or disposal

EU Abfallcode

The waste key number shall be determined by the consumer on the basis of the purpose of the product

Disposal methods/information

Collect and recover or feed in tightly sealed containers to an approved waste disposal. Disposal of the contents/container in accordance with local/regional/national/international regulations.

14. Section 14. Information on the Transport

14.1 ADR

The product is not covered by the international rules on the transport of dangerous goods

14.2 RID

The product is not covered by the international rules on the transport of dangerous goods

14.3 ADN

The product is not covered by the international rules on the transport of dangerous goods

14.4 IATA

The product is not covered by the international rules on the transport of dangerous goods

14.5 IMDG

The product is not covered by the international rules on the transport of dangerous goods

**14.6 Bulk transport in accordance with Annex II of the
no information available**

14.7 MARPOL Convention 73/78 and in accordance with the IBC Code

15. Section 15: Legislation

15.1 Health, environmental and environmental regulations/specific legislation on the substance or mixture

EU regulations

Regulation (EC) No 2037/2000 on substances that deplete the ozone layer, Annex I

Not listed

Regulation (EC) No 2037/2000 on substances that deplete the ozone layer, Annex II

Not listed

Regulation (EC) No 850/2004 on persistent organic pollutants, Annex I

Not listed

Regulation (EC) No 689/2008 on the import and import of hazardous chemicals, Annex I, Part 1

Not listed

Regulation (EC) No 689/2008 on the import and import of hazardous chemicals, Annex I, Part 2

Not listed

Regulation (EC) No 689/2008 on the import and import of hazardous chemicals, Annex I, Part 3

Not listed

Regulation (EC) No 689/2008 on the production and importation of hazardous chemicals, approach V

Not listed

Directive 96/61/EC. Integrated Pollution Prevention and Control (IPPC Directive): Article 15,

European Pollutant Emission Register (EPER)

Not listed

Regulation (EC) No 1907/2006, REACH Article 59(1), List of candidates

Not listed

Other rules

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. The product is not subject to labelling according to EC directives or the respective laws.

National rules

Follow national regulations for working with chemical excipients.

15.2 Stoffsicherheitsbeurteilung

No chemical safety assessment has been carried out.

Water hazard class (WGK)

VwVws

WGK 3

16. Section 16: Other Information

List of Abbreviations

DNEL: Derived No Effect Level

PNEC: Predicted No-Effect Concentration

PBT: Persistent, bioaccumulative and toxic

vPvB: very persistent and very bioaccumulative

References

Not available

Information on the evaluation method for the classification of a mixture

The classification for health and environmental hazards was derived from a combination of computational methods and, if available, test data

Full text of the statement or R-phrases and H-phrases are in sections 2 to 15

- R36 - Irritating the eyes

- H319 - Causes severe eye irritation

Schulungsinformationen

When handling this material, follow the training instructions.

For more information

This mixture is exempt from registration in accordance with the measures taken in Title II and VI and Article 2(9) of the REACH Regulation.

Disclaimer

The information provided in this SDS is based on the current state of knowledge of this product and the current legal requirements and standards. They specifically relate to health, safety and environmental requirements and standards, may not all identify with the product or use bw. misuse of the product and only apply if the product is used for the purposes specified in Section 1. This product is not sold for use for any other purpose and any other use may cause hazards not mentioned in this safety data sheet.

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>Wasserbehandlung