

**RESINE DE DEIONISATION DI (fût de 50 L)****SAFETY DATA SHEET  
(REACH (CE) n°1907/2006)****1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier**

Trade name : Résine de Déionisation DI (fût de 50 l)

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

Life cycle stages is use at industrial Sites

Application of the substance / the preparation: Water treatment - Ion exchanger – Resin - Catalyst

**1.3 Details of the supplier of the safety data sheet**

EDM SERVICE

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**1.4 Emergency telephone number : +33 (0)1 45 42 59 59**INRS : ORFILA <https://www.centres-antipoison.net>**2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008

Eye Dam. 1 H318 Causes serious eye damage

**2.2 Label elements**

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS05

Signal word : Danger

**Hazard-determining components of labelling :**

styrene-divinylbenzene-copolymer with trialkyl ammonium groups in OH- form - styrene-divinylbenzene-copolymer with sulfonated groups in H-form

**Hazard statements :** H318 Causes serious eye damage.**Precautionary statements**

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Other hazards**

Results of PBT and vPvB assessment



PBT: Not applicable.

vPvB: Not applicable.

**RESINE DE DEIONISATION DI (fût de 50 L)****3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Chemical characterisation: Mixtures**

Description: Mixture of the following components with non-hazardous substances.

Dangerous components:

CAS: 69011-18-3 EC number: 639-871-2	styrene-divinylbenzene-copolymer with trialkyl ammonium groups in OH- form  Eye Dam. 1, H318	25-50%
CAS: 69011-20-7 EC number: 614-895-6	styrene-divinylbenzene-copolymer with sulfonated groups in H-form  Eye Dam. 1, H318	10-25%

Non-dangerous components

CAS: 7732-18-5 EINECS: 231-791-2	Water	25-50%
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Additional information : for the wording of the listed hazard phrases refer to section 16.

**4. FIRST AID MEASURES****4.1 Description of first aid measures**

General information : Instantly remove any clothing soiled by the product.

People who have inhaled the product or the brand developed fumes or have come into contact with the product may not show immediate symptoms.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Position and transport in a stable posture on side.

After inhalation : supply fresh air; consult doctor in case of symptoms.

After skin contact : instantly wash with water and soap and rinse thoroughly.

After eye contact : Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

After swallowing : Induce vomiting, only if person affected is fully conscious.

Rinse out mouth and then drink plenty of water.

Seek medical treatment.

**4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**5. FIREFIGHTING MEASURES****5.1 Extinguishing media**

Suitable extinguishing agents

CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

For safety reasons unsuitable extinguishing agents Water with a full water jet.

**5.2 Special hazards arising from the substance or mixture**

Can be released in case of fire : carbon monoxide (CO) - carbon dioxide (CO<sub>2</sub>) - Nitrogen oxides (NO<sub>x</sub>) - sulphur oxides (SO<sub>x</sub>)

**5.3 Advice for firefighters**

Protective equipment : wear self-contained breathing apparatus.

**RESINE DE DEIONISATION DI (fût de 50 L)****6. ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

**6.2 Environmental precautions**

Prevent material from reaching sewage system, holes and cellars.

**6.3 Methods and material for containment and cleaning up:**

Collect mechanically.

Dispose of contaminated material as waste according to chapter 13.

**6.4 Reference to other sections**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

**7. HANDLING AND STORAGE****7.1 Precautions for safe handling**

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires :

Product is combustible

Protect against electrostatic charges.

Keep away from combustible materials, open flames and all sources of heat.

**7.2 Conditions for safe storage, including any incompatibilities**

Storage

Requirements to be met by storerooms and containers : store only in the original container.

Information about storage in one common storage facility :

Do not store with foodstuffs, animal feed and flammable materials.

Further information about storage conditions :

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

Recommended storage temperature : 1-40 °C

Storage class : 11

**7.3 Specific end use(s)**

No further relevant information available

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Additional information about design of technical systems: No further data; see chapter 7.

**8.1 Control parameters**

Components with critical values that require monitoring at the workplace :

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information : The lists that were valid during the compilation were used as basis.

**8.2 Exposure controls**

Personal protective equipment

General protective and hygienic measures

In case of handling the product, careful hygienic measures are recommended.

Keep away from foodstuffs, beverages and food.

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Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Do not eat, drink or smoke while working.

Avoid contact with the eyes.

Breathing equipment :

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Protection of hands :



Protective gloves (EN 374)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

PVC gloves

Nitrile rubber, NBR

Chloroprene rubber, CR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection :



Tightly sealed safety glasses (EN 166)

Body protection : Protective work clothing: DIN EN 13034

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form : solid

Colour : dark brown

Smell : product specific

Odour threshold : not determined.

pH-value (100 g/l) at 20°C : 6-9

Change in condition

Melting point/freezing point : not determined

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Initial boiling point and boiling range : not determined

Flash point : not applicable

Inflammability (solid, gaseous) : not determined.

Ignition temperature : >500°C

Decomposition temperature : not determined.

Self-inflammability : product is not selfigniting.

Explosive properties : product is not explosive.

Critical values for explosion:

Lower : not determined.

Upper : not determined.

Vapour pressure : not applicable.

Density at 20°C : 1.1 g/cm<sup>3</sup>

Settled apparent density : 600-800 kg/m<sup>3</sup>

Relative density : not determined.

Vapour density : not applicable.

Evaporation rate : not applicable.

Solubility in / Miscibility with

Water : insoluble

Partition coefficient : n-octanol/water : not determined.

Viscosity :

Dynamic : not applicable.

Kinematic : not applicable.

Solvent content : VOC/EC : 0.00 %

### 9.2 Other information

No further relevant information available.

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No further relevant information available.

### 10.2 Chemical stability

Thermal decomposition / conditions to be avoided :

No decomposition if used according to specifications.

### 10.3 Possibility of hazardous reactions

Reacts with strong acids and oxidizing agents

### 10.4 Conditions to avoid

Heat, flames, sparks and other sources of ignition

### 10.5 Incompatible materials:

No further relevant information available.

### 10.6 Hazardous decomposition products :

Carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>)

Nitrogen oxides (NO<sub>x</sub>)

Sulphur oxides (SO<sub>x</sub>)

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute toxicity : based on available data, the classification criteria are not met.

LD/LC50 values that are relevant for classification :

69011-18-3 styrene-divinylbenzene-copolymer with trialkyl ammonium groups in OH- form

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Oral LD50 >5,000 mg/kg (rat)

69011-20-7 styrene-divinylbenzene-copolymer with sulfonated groups in H-form

Oral LD50 >5,000 mg/kg (rat)

Primary irritant effect :

Skin corrosion/irritation : based on available data, the classification criteria are not met.

Serious eye damage/irritation : causes serious eye damage.

Respiratory or skin sensitisation : based on available data, the classification criteria are not met.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity : based on available data, the classification criteria are not met.

Carcinogenicity : based on available data, the classification criteria are not met.

Reproductive toxicity : based on available data, the classification criteria are not met.

STOT-single exposure : based on available data, the classification criteria are not met.

STOT-repeated exposure : based on available data, the classification criteria are not met.

Aspiration hazard : based on available data, the classification criteria are not met.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Aquatic toxicity : no further relevant information available.

### 12.2 Persistence and degradability

No further relevant information available.

### 12.3 Bioaccumulative potential

No further relevant information available.

### 12.4 Mobility in soil

No further relevant information available.

Additional ecological information :

General notes :

Water hazard class 1 (Self-assessment) : slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

### 12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

### 12.6 Other adverse effects

No further relevant information available.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Recommendation

Contact manufacturer for recycling information.

Waste material must be disposed of in accordance with Directive 2008/98/EC as well as national and local regulations.

European waste catalogue

19 00 00 WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE

19 08 00 wastes from waste water treatment plants not otherwise specified

19 08 06\* saturated or spent ion exchange resins

HP 4 Irritant - skin irritation and eye damage

Uncleaned packagings :

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Recommendation: disposal must be made according to official regulations.

### 14. TRANSPORT INFORMATION

#### 14.1 UN-Number

ADR/RID/ADN, ADN, IMDG, IATA Void

#### 14.2 UN proper shipping name

ADR/RID/ADN, ADN, IMDG, IATA Void

#### 14.3 Transport hazard class(es)

ADR/RID/ADN, ADN, IMDG, IATA

Class Void

#### 14.4 Packing group

ADR/RID/ADN, IMDG, IATA Void

#### 14.5 Environmental hazards :

Not applicable.

#### 14.6 Special precautions for user :

Not applicable.

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code :

Not applicable.

Transport/Additional information : non-dangerous goods according to the official regulations.

UN "Model Regulation" : void

### 15. REGULATORY INFORMATION

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

National regulations

Water hazard class : Water hazard class 1 (Self-assessment): slightly hazardous for water.

#### 15.2 Chemical safety assessment :

A Chemical Safety Assessment has not been carried out.

### 16. OTHER INFORMATION

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.