

A TRADEMARK OF JACOBI CARBONS. WWW.JACOBI.NET

**Resinex™**  
Ion Exchange Resin

Page 1/8

## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 08.11.2011

Version: 2

Revision: 08.11.2011

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

#### 1.1 Product identifier

Trade name **RESINEX™ MX-1, MX-11, MX-2, MX-21, MX-1 I, MX-11 I, MX-2 I, MX-21 I, NC-3010**

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

Application of the substance / the preparation: Water treatment

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

##### Manufacturer/Supplier:

Jacobi Carbons Group  
Slöjdaregatan 1  
SE-393 53 Kalmar  
Sweden

fon: +46 480 41 75 50

fax: +46 480 41 75 59

##### Informing department:

Product Safety Department  
msds@jacobi.net

1.4 Emergency telephone number: fon: +49 69 719107-0 (Business hours: 08.00 - 17.00)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

The product is not a dangerous substance according to Directive 67/548/EEC.



Xi; Irritant

R41: Risk of serious damage to eyes.

Information concerning particular hazards for human and environment: void

#### 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

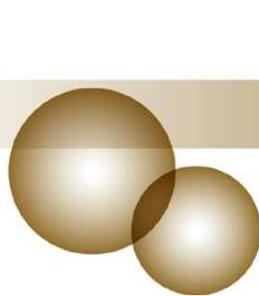
Signal word Danger

##### Hazard-determining components of labelling:

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

(Contd. on page 2)

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styrene-divinylbenzene-copolymer with sulfonated groups in H-form

(Contd. of page 1)

### Hazard statements

H318 Causes serious eye damage.

### Precautionary statements

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 or doctor/physician.

### 2.3 Other hazards

### Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

### 3.2 Chemical characterization: Mixtures

#### Dangerous components:

CAS: 69011-18-3 not listed	styrene-divinylbenzene-copolymer with trialkyl ammonium groups in OH- form ☒ Xi R41 ☞ Eye Dam. 1, H318	25-50%
CAS: 69011-20-7 not listed	styrene-divinylbenzene-copolymer with sulfonated groups in H-form ☒ Xi R41 ☞ Eye Dam. 1, H318	25-50%

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

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

**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.

#### After swallowing

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

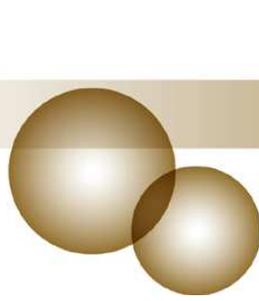
No further relevant information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing agents** Water spray, foam, carbon dioxide, dry extinguishing agents

(Contd. on page 3)



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(Contd. of page 2)

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

Can be released in case of fire:

Nitrogen oxides (NO<sub>x</sub>)  
carbon monoxide (CO)  
carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for firefighters

**Protective equipment:** Wear self-contained breathing apparatus.

## SECTION 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:** Do not allow product to reach sewage system or water bodies.

### 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.

## SECTION 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:

The product is combustible.

Protect against electrostatic charges.

### 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

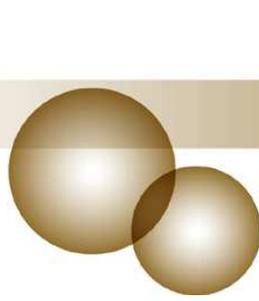
### 7.3 Specific end use(s)

No further relevant information available.

## SECTION 8: Exposure controls/personal protection

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

(Contd. on page 4)



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(Contd. of page 3)

**8.1 Control parameters**

**Components with critical values that require monitoring at the workplace:** Not required.

**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**

The usual precautionary measures should be adhered to in handling the chemicals.

Instantly remove any soiled and impregnated garments.

Do not inhale dust / smoke / mist.

Avoid contact with the eyes.

Do not eat, drink or smoke while working.

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

**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:**

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.

**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.

**Body protection:** Protective work clothing.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

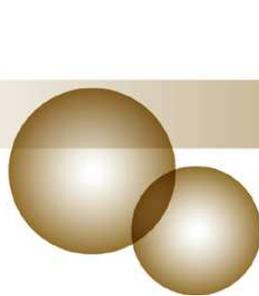
**General Information**

**Appearance:**

<b>Form:</b>	Solid Grit size: 0.3-1.3 mm
<b>Colour:</b>	Dark brown
<b>Smell:</b>	Amine-like
<b>Odour threshold:</b>	Not determined.

**pH-value (100 g/l) at 20°C:** 6-9

(Contd. on page 5)



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(Contd. of page 4)

<b>Change in condition</b>	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not determined
<b>Flash point:</b>	Not applicable
<b>Inflammability (solid, gaseous)</b>	Not determined.
<b>Ignition temperature:</b>	
Decomposition temperature:	Not determined.
<b>Self-inflammability:</b>	Not determined.
<b>Danger of explosion:</b>	Product is not explosive.
<b>Critical values for explosion:</b>	
Lower:	Not determined.
Upper:	Not determined.
<b>Steam pressure:</b>	Not applicable.
<b>Density at 20°C</b>	1.20 kg/L
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Solubility in / Miscibility with Water:</b>	Unsoluble
<b>Segregation coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
dynamic:	Not applicable.
kinematic:	Not applicable.
<b>Solvent content:</b>	
Solids content:	100.0 %
<b>9.2 Other information</b>	No further relevant information available.

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

**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

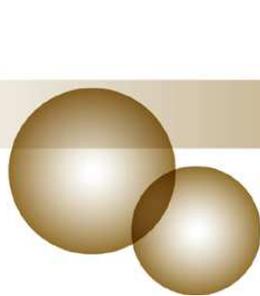
**10.4 Conditions to avoid** No further relevant information available.

**10.5 Incompatible materials:** No further relevant information available.

**10.6 Hazardous decomposition products:**

Carbon monoxide and carbon dioxide

(Contd. on page 6)



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

(Contd. of page 5)

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity:**

**LD/LC50 values that are relevant for classification:**

Oral	LD50	>5000 mg/kg (rat)
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**Primary irritant effect:**

**on the skin:** No irritant effect.

**on the eye:** Strong irritant with the danger of severe eye injury.

**Sensitization:** No sensitizing effect known.

**SECTION 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:** not hazardous for water.

**12.5 Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6 Other adverse effects** No further relevant information available.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Recommendation**

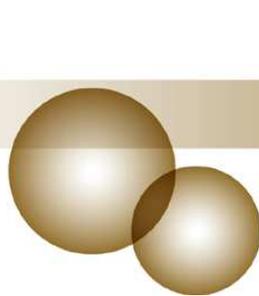
Contact manufacturer for recycling information.

Disposal according to official 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

(Contd. on page 7)



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(Contd. of page 6)

**Uncleaned packagings:**

**Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

**14.1 UN-Number**

ADR, ADN, IMDG, IATA

Void

**14.2 UN proper shipping name**

ADR, ADN, IMDG, IATA

Void

**14.3 Transport hazard class(es)**

ADR, ADN, IMDG, IATA

**Class**

Void

**14.4 Packing group**

ADR, IMDG, IATA

Void

**14.5 Environmental hazards:**

**Marine pollutant:**

No

**14.6 Special precautions for user**

Not applicable.

**14.7 Transport in bulk according to Annex II**

**of MARPOL73/78 and the IBC Code**

Not applicable.

**Transport/Additional information:**

Not dangerous according to the above regulations.

**UN "Model Regulation":**

-

**SECTION 15: Regulatory information**

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

**Labelling according to Regulation (EC) No 1272/2008**

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

**Hazard pictograms**



GHS05

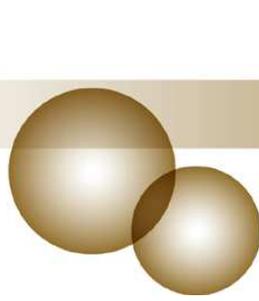
**Signal word** Danger

**Hazard-determining components of labelling:**

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

styrene-divinylbenzene-copolymer with sulfonated groups in H-form

(Contd. on page 8)



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Page 8/8

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(Contd. of page 7)

### Hazard statements

H318 Causes serious eye damage.

### Precautionary statements

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 or doctor/physician.

### National regulations

**Water hazard class:** not hazardous for water.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## SECTION 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.

### Relevant phrases

H318 Causes serious eye damage.

R41 Risk of serious damage to eyes.

**Department issuing data specification sheet:** Product safety department

### Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

\* **Data compared to the previous version altered.**

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