

SAFETY DATA SHEET (GHS, Appendix4)  
Version : N°2 (04/05/2024)  
PERKUTE Maschinenbau GmbH

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# RAS-IA

## SAFETY DATA SHEET

UFI-Code: D800-U0RP-T009-1YTY

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### SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name : Ion exchange resin 700  
Product code : . 12727

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

Ion exchange resin and catalyst

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

Registered company name : PERKUTE Maschinenbau GmbH.  
Address : Düsterbergstr. 10, 48432 Rheine Germany  
Telephone : +49 5971 8081680 Fax : +49 5971 8081681  
info@perkute.de  
www.perkute.de

#### 1.4. Emergency telephone number : CH : +41 44 251 51 51.

Association/Organisation: Tox Info Suisse.  
Other countries : <https://echa.europa.eu/support/helpdesks>

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### SECTION 2 : HAZARD IDENTIFICATION

#### 2.1. Classification of the substance or mixture

GHS compliant.

Serious eye damage, Category 1 (Eye Dam. 1, H318).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

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This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

### 2.2. Label elements

GHS compliant.

Hazard pictograms :



GHS05

Signal Word :

DANGER

Product identifiers :

CAS 69011-20-7

STYRENE DIVINYLBENZENE COPOLYMER WITH SULFONATE GROUPS IN H+ FORM

CAS 69011-18-3

STYRENE-DIVINYLBENZENE-COPOLYMER WITH TRIMETHYLAMINEGROUPS IN OH- FORM

Hazard statements :

H318

Causes serious eye damage.

Precautionary statements - Prevention :

P280

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

Precautionary statements - Response :

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/...

### 2.3. Other hazards

## SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

Composition :

% w/w

Identification	GHS	Note	%
CAS: 7732-18-5 EC: 231-791-2 <b>WATER</b>			<b>40 - 60%</b>
CAS: 69011-20-7 EC: 614-895-6 <b>STYRENE DIVINYLBENZENECOPOLYMER WITH SULFONATE GROUPS IN H+ FORM</b>	<b>GHS05 Dgr Eye Dam. 1, H318</b>		<b>15 - 35%</b>

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CAS: 69011-18-3 EC: 639-871-2  STYRENE-DIVINYLBENZENE-COPOLYMER WITH TRIMETHYLAMINEGROUPS IN OH- FORM	GHS05 Dgr Eye Dam. 1, H318		20 - 40%
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Information on ingredients :  
(Full text of H-phrases: see section 16)

### SECTION 4 : FIRST AID MEASURES

**As a general rule, in case of doubt or if symptoms persist, always call a doctor.  
NEVER induce swallowing by an unconscious person.**

#### 4.1. Description of first aid measures

**In the event of exposure by Inhalation :**

**Obtain medical attention if cough or respiratory symptoms develop.  
Fresh air, rest.**

**In the event of splashes or contact with eyes :**

**Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.  
Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.  
If there is any redness, pain or visual impairment, consult an ophthalmologist.**

**In the event of splashes or contact with skin :**

**Watch out for any remaining product between skin and clothing, watches, shoes, etc.  
Rinse with water and soap.  
Remove contaminated clothes.  
Obtain medical attention if irritation becomes apparent.**

**In the event of swallowing :**

**Seek medical attention, showing the label.  
Give at least 1/2 L of water to drink.  
Do not induce vomiting.**

#### 4.2. Most important symptoms and effects, both acute and delayed

**No data available.**

#### 4.3. Indication of any immediate medical attention and special treatment needed

**In case of accident or unwellness, seek medical advice immediately.**

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### SECTION 5 : FIREFIGHTING MEASURES

#### 5.1. Extinguishing media

##### Suitable methods of extinction

In the event of a fire, use :

- foam
- carbon dioxide (CO<sub>2</sub>)
- sprayed water or water mist
- dry chemical agents

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

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)
- sulphur dioxide (SO<sub>2</sub>)
- nitrogen oxide (NO)
- nitrogen dioxide (NO<sub>2</sub>)

#### 5.3. Advice for firefighters

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

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### SECTION 6 : ACCIDENTAL RELEASE MEASURES

Do not touch or walk through spilt material. Hazard of slipping on spilt product.

#### 6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

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For non first aid worker

Avoid any contact with the skin and eyes.  
Keep unnecessary personnel away

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Retrieve the product by mechanical means (sweeping/vacuuming).

6.4. Reference to other sections

See also sections 8 & 13

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### SECTION 7 : HANDLING AND STORAGE

**Requirements relating to storage premises apply to all facilities where the mixture is handled.**

#### 7.1. Precautions for safe handling

**Always wash hands after handling.**

**Remove and wash contaminated clothing before re-using.**

**Emergency showers and eye wash stations will be required in facilities where the mixture is handled constantly.**

**See section 8. Do not handle frozen product. In the event of freezing, allow the product to thaw progressively at room temperature before handling.**

#### Fire prevention :

**Prevent access by unauthorised personnel.**

#### Recommended equipment and procedures :

**For personal protection, see section 8.**

**Observe precautions stated on label and also industrial safety regulations.**

**Avoid eye contact with this mixture at all times.**

**Ensure containment and adequate ventilation.**

#### Prohibited equipment and procedures :

**No smoking, eating or drinking in areas where the mixture is used.**

#### 7.2. Conditions for safe storage, including any incompatibilities

**Keep the container tightly closed in a cool, well ventilated place**

**Keep away from .....(Incompatible materials) (section 10)**

**Recommended storage temperatures: 1 - 40 ° C. Avoid freezing and sun exposure.**

**Keep away from food and drink.**

#### Storage

**Store in the closed, original packaging.**

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### Packaging

Always keep in packaging made of an identical material to the original.

Recommended types of packaging :

- Big-bags
- Drums
- Bags

Suitable packaging materials :

- Polyethylene
- Polypropylene

### 7.3. Specific end use(s)

No data available.

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## SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

No data available.

### 8.2. Exposure controls

#### Personal protection measures, such as personal protective equipment

Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

#### - Eye /face protection

Avoid contact with eyes.

Before handling powders or dust emission, wear mask goggles in accordance with standard EN166.

Prescription glasses are not considered as protection.

Provide eyewash stations in facilities where the product is handled constantly.

#### - Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- PVC (polyvinyl chloride)
- Neoprene® (Polychloroprene)
- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))

#### - Body protection

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

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- Respiratory protection  
Avoid inhaling dust.  
Type of FFP mask :  
Wear a disposable half-mask dust filter in accordance with standard EN149/A1.  
Category :
  - FFP2Particle filter according to standard EN143 :
  - P1 (White)

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### SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on basic physical and chemical properties

##### General information :

<b>Physical state :</b>	<b>Solid in granules.</b>
<b>Apparent bulk density (Packed) :</b>	<b>650 - 850 kg/m<sup>3</sup></b>
<b>Particle size :</b>	<b>0.3 - 1.25 mm</b>
<b>Aspect:</b>	<b>Amber colored beads</b>

##### Important health, safety and environmental information

<b>pH :</b>	<b>7.00 .</b> <b>Neutral.</b>
<b>Boiling point/boiling range :</b>	<b>Not specified.</b>
<b>Flash point Interval :</b>	<b>Not relevant.</b>
<b>Vapour pressure (50°C) :</b>	<b>Not relevant.</b>
<b>Density :</b>	<b>&gt; 1</b>
<b>Water solubility:</b>	<b>Insoluble.</b>
<b>Melting point/melting range :</b>	<b>Not specified.</b>
<b>Self-ignition temperature :</b>	<b>Not specified.</b>
<b>Decomposition point/decomposition range :</b>	<b>Not specified.</b>

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9.2. Other information  
No data available.

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### SECTION 10 : STABILITY AND REACTIVITY

#### 10.1. Reactivity

No data available.

#### 10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

#### 10.3. Possibility of hazardous reactions

In contact with strong oxidants.

#### 10.4. Conditions to avoid

Avoid :

- formation of dusts

#### 10.5. Incompatible materials

Keep away from :

- oxidising agents

#### 10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)
- sulphur dioxide (SO<sub>2</sub>)
- nitrogen oxide (NO)
- nitrogen dioxide (NO<sub>2</sub>)

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## SECTION 11 : TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

**May have irreversible effects on the eyes, such as tissue damage in the eye, or serious physical decay of sight, which is not fully reversible by the end of observation at 21 days.**

**Serious eye damage is typified by the destruction of cornea, persistent corneal opacity and iritis.**

#### 11.1.1. Substances

##### Acute toxicity :

**STYRENE-DIVINYLBENZENE-COPOLYMER WITH TRIMETHYLAMINEGROUPS IN OH- FORM (CAS: 69011-18-3)**

Oral route : LD50 > 5000 mg/kg  
Species : Rat

**STYRENE DIVINYLBENZENE COPOLYMER WITH SULFONATE GROUPS IN H+ FORM (CAS: 69011-20-7)**

Oral route : LD50 > 5000 mg/kg  
Species : Rat

##### Serious damage to eyes/eye irritation :

**Causes severe eye irritation, serious eye damage.**

#### 11.1.2. Mixture

##### Serious damage to eyes/eye irritation :

**Causes severe eye irritation, serious eye damage.**

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## SECTION 12 : ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### 12.1.2. Mixtures

**No aquatic toxicity data available for the substances.**

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### 12.2. Persistence and degradability

No data available.

### 12.3. Bioaccumulative potential

No data available.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

### 12.6. Endocrine disrupting properties

No data available.

### 12.7. Other adverse effects

No data available.

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## SECTION 13 : DISPOSAL CONSIDERATIONS

**The appropriate waste management of the mixture and/or its container must be determined in accordance with local regulations.**

### 13.1. Waste treatment methods

**Do not pour into drains or waterways.**

**Spent products should be packaged, sealed, labelled, and disposed of or recycled according to relevant national and local regulations.**

#### **Waste :**

**Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.**

**Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.**

**Do not contaminate the ground or water with waste, do not dispose of waste into the environment.**

#### **Soiled packaging :**

**Empty container completely. Keep label(s) on container.**

**Give to a certified disposal contractor.**

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### SECTION 14 : TRANSPORT INFORMATION

**Exempt from transport classification and labelling.**

**14.1. UN number**

-

**14.2. UN proper shipping name**

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**14.3. Transport hazard class(es)**

-

**14.4. Packing group**

-

**14.5. Environmental hazards**

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**14.6. Special precautions for user**

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### SECTION 15 : REGULATORY INFORMATION

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

**The following regulations have been used:**

- Globally Harmonized System of Classification and Labelling of Chemicals (GHS), review no. 7 (2017)

Switzerland - VOC-Lenkungsabgabe

Incentive tax on VOCs. This product contains 0% VOC substance appearing on the positive lists of the above-mentioned regulation.

- Container information:

No data available.

- Particular provisions :

No data available.

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15.2. Chemical safety assessment  
Non Applicable

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### SECTION 16 : OTHER INFORMATION

**Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.**

**The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.**

**The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.**

**Wording of the phrases mentioned in section 3 :**

**H318 Causes serious eye damage.**

**Abbreviations :**

**LD50 : The dose of a test substance resulting in 50% lethality in a given time period.**

**ADR : European agreement concerning the international carriage of dangerous goods by Road.**

**IMDG : International Maritime Dangerous Goods.**

**IATA : International Air Transport Association.**

**ICAO : International Civil Aviation Organisation**

**RID : Regulations concerning the international carriage of Dangerous goods by rail.**

**GHS05 : Corrosion**

**PBT: Persistent, bioaccumulable and toxic.**

**vPvB : Very persistent, very bioaccumulable.**