



Trade name: Rgs Fehling R (Lösung II)

Substance number: 183525

Version: 1 / CH

Date revised: 11.05.12

Replaces Version: - / CH

Date of printing: 11.05.12

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Rgs Fehling R (Lösung II)

Item-No. 18352500

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

#### Address

Hänseler AG

Industriestrasse 35

9101 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of person responsible for this SDS sdb@haenseler.ch

### 1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification in accordance with EC directives

Classification C, R35

### 2.2. Label elements

#### Labelling according to regulation (EC) No 1272/2008

#### Hazard pictograms



#### Signal Word

Danger

#### Hazard statements

H314 Causes severe skin burns and eye damage.

#### Precautionary statements

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

P305 IF IN EYES:

P351 Rinse cautiously with water for several minutes.

P309 IF exposed or if you feel unwell:

P315 Get immediate medical advice/attention.

#### Labelling in accordance with EC directives 1999/45/EC and 67/548/EEC

The product is classified and labelled in accordance with EC directives/the relevant national laws.

#### Hazard symbols





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Corrosive

**R phrases**

35 Causes severe burns.

**S phrases**

37/39 Wear suitable gloves and eye/face protection.  
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**Hazardous component(s) to be indicated on label**

contains Sodium hydroxide

**3. Composition/information on ingredients****Hazardous ingredients****Sodium hydroxide**

CAS No.	1310-73-2
EINECS no.	215-185-5
Concentration	>= 1 < 10 %
Classification	C, R35

Classification (Regulation (EC) No. 1272/2008)  
 Skin Corr. 1A H314

Concentration limits (Regulation (EC) No. 1272/2008)

Eye Irrit. 2	H319	<= 0,5 < 2
Skin Corr. 1B	H314	<= 2 < 5
Skin Irrit. 2	H315	<= 0,5 < 2
Skin Corr. 1A	H314	>= 5

**4. First aid measures****4.1. Description of first aid measures****General information**

Remove contaminated, soaked clothing immediately and dispose of safely.

**After inhalation**

Ensure supply of fresh air. Take medical treatment.

**After skin contact**

In case of contact with skin wash off immediately with plenty of water. Consult a doctor if skin irritation persists.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

**After ingestion**

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Summon a doctor immediately.

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

Irritation of mucosa, Coughing, Shortness of breath

**5. Firefighting measures**



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## 5.1. Extinguishing media

### Suitable extinguishing media

Extinguishing measures to suit surroundings

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

In case of combustion evolution of dangerous gases possible.

## 5.3. Advice for firefighters

### Special protective equipment for fire-fighting

Use self-contained breathing apparatus. Wear full protective suit.

## 6. Accidental release measures

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

Wear protective equipment. Keep away unprotected persons.

### 6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

### 6.3. Methods and material for containment and cleaning up

Pick up with absorbent material. Ensure adequate ventilation.

## 7. Handling and storage

### 7.1. Precautions for safe handling

#### Advice on protection against fire and explosion

No special measures necessary.

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

#### Requirements for storage rooms and vessels

Do not use aluminium containers. Do not use zinc containers.

#### Hints on storage assembly

Do not store together with foodstuffs.

#### VCI storage category

VCI storage category 8B Non-combustible corrosive substances

#### Further information on storage conditions

Keep container tightly closed.

## 8. Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limit values

##### Sodium hydroxide

List	SUVA	
Type	MAK	
Value	2	mg/m <sup>3</sup>
Short term exposure limit	2	mg/m <sup>3</sup>
Maximum limit value: 15 min; Pregnancy group: C; Status: 2005;		

### 8.2. Exposure controls

#### Exposure controls

See chapter 7. No measures exceeding the ones mentioned are necessary.



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**General protective and hygiene measures**

Keep away from food-stuffs, beverages and feed-stocks. Remove contaminated, soaked clothing immediately and dispose of safely. Wash hands before breaks and after work. Avoid contact with eyes and skin.

**Respiratory protection**

Breathing apparatus in the event of vapours. Breathing apparatus in the event of aerosol or mist formation.

**Hand protection**

Protective gloves			
Appropriate Material	Natural Latex		
Material thickness	0.6	mm	
Penetrating time	>= 480	min	
Protective gloves			
Appropriate Material	Polychloroprene		

**Eye protection**

Tightly fitting safety glasses

**Body protection**

Protective clothing

**9. Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Form</b>	liquid		
<b>Colour</b>	colourless		
<b>Odour</b>	odourless		
<b>Melting point</b>			
Remarks	Not determined		
<b>Boiling point</b>			
Remarks	Not determined		
<b>Flash point</b>			
Remarks	Not applicable		
<b>Flammability</b>			
Not self inflammable			
<b>Vapour pressure</b>			
Value	appr. 23		hPa
Temperature	20	°C	
<b>Density</b>			
Value	1.24		g/cm <sup>3</sup>
Temperature	20	°C	
<b>Solubility in water</b>			
Remarks	Completely miscible		

**10. Stability and reactivity****10.5. Incompatible materials**

Metals, Acids, Acetone, Phenols, Reaction with ammonium compounds, Reactions with light metals, with evolution of hydrogen. Explosive

**10.6. Hazardous decomposition products**

No data available.



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## **11. Toxicological information**

### **11.1. Information on toxicological effects**

#### **Acute oral toxicity**

Reference substance	Sodium hydroxide		
Species	rat		
LD50	2000		mg/kg

#### **Acute inhalational toxicity**

Remarks Irritating to respiratory system.

#### **Skin corrosion/irritation**

Reference substance	Sodium hydroxide
valuation	strongly corrosive
Remarks	Corrosive action on the skin and mucous membrane.

#### **Serious eye damage/irritation**

Reference substance	Sodium hydroxide
valuation	strongly corrosive
Remarks	Influence of the product with the eyes can lead to blindness.

#### **Sensitization**

Reference substance	Sodium hydroxide
Remarks	No sensitization effect known.

#### **Experience in practice**

After Swallowing: burns in mouth, throat, oesophagus and gastrointetinal tract. Risk of perforation in the oesophagus and stomach.

#### **Other information**

Observe the usual precautions for handling chemicals.

## **12. Ecological information**

### **12.1. Toxicity**

#### **Fish toxicity**

Reference substance	Sodium hydroxide
Remarks	Harmful to fishes.

### **12.6. Other adverse effects**

#### **General information / ecology**

Harmful to aquatic organisms. Do not allow it to reach soil, ground water, water bodies or sewage system.

## **13. Disposal considerations**

### **13.1. Waste treatment methods**

#### **Disposal recommendations for the product**

Disposal in compliance with local and national regulations.

#### **Disposal recommendations for packaging**

Dispose of as unused product.

## **14. Transport information**

### **Land transport ADR/RID**



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**14.1. UN number**

UN 1824

**14.2. UN proper shipping name**

SODIUM HYDROXIDE SOLUTION

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

Class 8

Label 8

**14.4. Packing group**

Packing group II

Non-dangerous goods

**Marine transport IMDG/GGVSee****14.1. UN number**

UN 1824

**14.2. UN proper shipping name**

SODIUM HYDROXIDE SOLUTION

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

Class 8

**14.4. Packing group**

Packing group II

The product does not constitute a hazardous substance in sea transport.

**Air transport ICAO/IATA****14.1. UN number**

UN 1824

**14.2. UN proper shipping name**

SODIUM HYDROXIDE SOLUTION

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

Class 8

**14.4. Packing group**

Packing group II

The product does not constitute a hazardous substance in air transport.

**15. Regulatory information****16. Other information****R-phrases listed in chapter 3**

35 Causes severe burns.

**Hazard statements listed in chapter 3**

H314 Causes severe skin burns and eye damage.

**Supplemental information**

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.