

# Safety data sheet

according to Regulation (EC) No. 1907/2006

# Schliessmann Schwäbisch Hall

Date: 12.01.2016

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

### 1.1 Product identifier

Product name: Rebelein-Reagenz „ZUCKER 4“ / Rebelein „SUGAR 4“  
Article: 0031 f.  
Chemical name: -  
Chemical name: Sulphuric acid  
Registration number: See section 3 for substances contained in the mixture

**1.2 Relevant identified uses of the substance or mixture and uses advised against** Reagent for the analysis of beverages

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

Company: C. Schliessmann Kellerei-Chemie GmbH & Co KG  
Auwiesenstr. 5, D-74523 Schwäbisch Hall  
Tel. 0049-(0)791 / 97191 -0, Fax -25  
E-Mail: service@c-schliessmann.de

**1.4 Emergency telephone number** Poison centre Freiburg: Tel. 0049-(0)761 / 19240

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

Met. Corr. 1 H290 May be corrosive to metals.  
Skin Corr. 1A H314 Causes severe skin burns and eye damage.

### 2.2 Label elements according to Regulation (EC) No 1272/2008

Hazard pictograms:



Signal word:

**DANGER**

**Hazardous component:** sulphuric acid

**Hazard statements:** H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.

**Precautionary statements:** P280 Wear protective gloves / protective clothing / eye protection / face protection.  
P303+P361+P353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P309+P310 IF exposed or if you feel unwell: Call immediately a POISON CENTER or doctor/physician.

**2.3 Other hazards** No informations available

## 3. Composition/information on ingredients

**3.1 Substance** The product is a mixture.

### 3.2 Mixtures

Mixture of substances listed below with water.

Dangerous component:	sulphuric acid
EC Number:	231-639-5
CAS:	7664-93-9
Reg.nr.:	01-2119458838-20-0019
Classification:	Met. Corr. 1 H290 May be corrosive to metals. Skin Corr. 1A H314 Causes severe skin burns and eye damage.
Content:	approx. 16 %

## 4. First aid measures

### 4.1 Description of first aid measures

After inhalation:	Supply fresh air.
After skin contact:	Wash with water and soap. Unless contact has been slight obtain medical attention.
After eye contact:	Rinse opened eye for 10 minutes under running water. Then consult a doctor.
After swallowing:	Rinse out mouth and drink 2 glass of water. Obtain medical attention.

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

After inhalation:	Contact with mucous membranes causes damage of the mucous membranes.
After skin contact:	Severe burns under the formation of sloughs.
After eye contact:	Eye contact leads to corneal damage. Risk of blindness.
After swallowing:	Severe pain (risk of perforation!), nausea, vomiting, diarrhoea.

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

No further relevant information available.

## 5. Firefighting measures

<b>5.0 Combustibility</b>	The product is not combustible.
<b>5.1 Suitable extinguishing agents</b>	Adapted to the environmental fire. CO <sub>2</sub> , powder or waterspray
<b>5.2 Special hazards arising from the substance or mixture</b>	Risk of hazardous vapours and toxic fumes in fire (sulphur oxides).
<b>5.3 Advice for firefighters</b>	Wear self-contained respiratory protective device. Wear fully protective suit.

## 6. Accidental release measures

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

Wear appropriate protective clothing. Don't breathe aerosols and fumes.

### 6.2 Environmental precautions

Dilute with plenty of water. Do not allow to enter sewers/ground water or penetrate the soil.

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

Neutralize spilled product cautiously with soda ash, mop up with plenty of water and run to waste. Clean site of spillage thoroughly

### 6.4 Reference to other sections

See Section 13 for disposal information.

## 7. Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. For dilution put the acid into the water, not the other way around.

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

Keep well closed at 15-25°C, not in metal tins or containers.

### 7.3 Specific end use(s)

See section 1.2

## 8. Exposure controls/personal protection

### 8.1 Control parameters

WEL (Great Britain):

Long-term value sulphuric acid: 0.05 mg/m<sup>3</sup>

## 8.2 Exposure controls

Personal protective equipment:

Respiratory protection:

Suitable respiratory equipment when vapours/aerosols are generated. Filter-type E (-P2)

Eye protection:

Safety glasses with side-shields or face-shield.

Skin protection:

Rubber or plastic gloves.

General hygiene considerations:

In accordance with good industrial hygiene and safety practices. Application of skin-protective barrier cream recommended. Wash hands after working with substance.

## 9. Physical and chemical properties

Physical state:	Liquid
Colour:	Colourless
Odour:	Odourless
pH-value:	1 (20°C)
Melting temperature:	-8°C
Boiling temperature:	102°C
Ignition temperature:	Not applicable
Flash point:	Not applicable
Danger of explosion:	No explosion hazard
Vapour pressure:	Not available.
Density:	1,10 g/cm <sup>3</sup> (20°C)
Solubility in water:	Unlimited

## 10. Stability and reactivity

### 10.1 Reactivity

Has a corrosive and oxidizing effect.

### 10.2 Chemical stability

No decomposition if used and stored according to specifications.

### 10.3 Possibility of hazardous reactions

Development of heat in contact with alkali. Exothermic dissolution process with water. Reacts with metals forming hydrogen (risk of explosion).

### 10.4 Conditions to avoid

Heating

### 10.5 Incompatible materials

Various metals

### 10.6 Hazardous decomposition products

In case of fire: see section 5.

## 11. Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity (sulphuric acid):

LD50 (oral, rat): 2140 mg/kg

Subacute/chronic toxicity:

No sensitizing effects known.

CMR effects:

Mutagenicity:

Ames-test and tests with animals didn't show mutagenic or teratogenic effects.

Carcinogenicity:

No information available.

Reproductive toxicity:

No information available.

### 11.2 Further information

See section 4 for symptoms after direct contact with the product

## 12. Ecological information

All Informations refer to:

sulphuric acid

### 12.1 Aquatic toxicity

LC50 (96h) 16-29 mg/l (Lepomis macrochirus)

### 12.2 Persistence and degradability

Not applicable.

### 12.3 Bioaccumulative potential

No further relevant information available.

### 12.4 Mobility in soil

No further relevant information available.

### 12.5 Results of PBT and vPvB assessment

Not applicable.

### 12.6 Other adverse effects

No further relevant information available.

### 13. Disposal considerations

Product must be disposed of as hazardous waste. Disposal according to official regulations. Little quantities may be rinsed away with plenty of water after neutralization.

### 14. Transport information

#### 14.1 UN-Number

ADR, IMDG, IATA: UN 2796

#### 14.2 UN proper shipping name

ADR: 2796 SULPHURIC ACID  
IMDG, IATA: SULPHURIC ACID

#### 14.3 Transport hazard class(es)

ADR: Class 8 / Corrosive substances, Label 8  
classification code C1  
Transport category 2 / LQ22 / 1 L  
IMDG: Class 8 / Corrosive substances, Label 8  
EmS: F-A S-B  
IATA: Class 8 / Corrosive substances, Label 8

#### 14.4 Packing group

ADR, IMDG, IATA: II

#### 14.5 Environmental hazards

Marine pollutant: No

### 15. Regulatory information

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

Information about limitation of use: Employment restrictions concerning juveniles must be observed.

Waterhazard class: 1 (slightly hazardous for water)

### 16. Other information

The informations provided on this SDS are correct to the best of our knowledge and information. These informations are designed as a guide for safe handling. They are no guarantee for specific characteristics of the product.