

# Safety data sheet

according to Regulation (EC) No. 1907/2006

# Schliessmann Schwäbisch Hall

Date: 11.01.2016

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

### 1.1 Product identifier

Product name: Rebelein-Reagenz „ZUCKER 1“ / Rebelein „SUGAR 1“  
Article: 0025 f.  
Chemical name: -  
Chemical name: Solution of copper-II-sulfate pentahydrate and 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 Kann gegenüber Metallen korrosiv sein.  
Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

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

Hazard pictograms:



Signal word:

**WARNING**

**Hazardous component:**

copper-II-sulphate pentahydrate, sulphuric acid

**Hazard statements:**

H290  
H410

May be corrosive to metals.  
Very toxic to aquatic life with long lasting effects.

**Precautionary statements:**

P273  
P305+P351+P338  
P501

Avoid release to the environment.  
IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
Dispose according local regulations.

### 2.3 Other hazards

Harmful if swallowed. Causes eye irritation.

## 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:  
Index Number:

copper-II-sulphate pentahydrate  
029-004-00-0

|                      |   |
|----------------------|---|
| CAS:                 | 7758-99-8   |
| Reg.nr.:             | 01-2119520566-40  |
| Classification:      | Aquatic Acute 1 H400 Very toxic to aquatic life.<br>Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.<br>Acute Tox. 4 H302 Harmful if swallowed.<br>Skin Irrit. 2 H315 Causes skin irritation.<br>Eye Irrit. 2 H319 Causes serious eye irritation. |
| Content:             | < 5 %   |
| Dangerous component: | sulphuric acid  |
| Index Number:        | 016-020-00-8  |
| CAS:                 | 7664-93-9   |
| Reg.nr.:             | 01-2119458838-20-0019   |
| Classification:      | Met. Corr. 1 H290 May be corrosive to metals.<br>Skin Corr. 1A H314 Causes severe skin burns and eye damage.  |
| Content:             | < 0,5 %   |

#### 4. First aid measures

##### 4.1 Description of first aid measures

|                     |   |
|---------------------|---|
| After inhalation:   | Supply fresh air.   |
| After skin contact: | Wash with water and soap.   |
| After eye contact:  | Rinse opened eye for 10 minutes under running water. Then consult a doctor. |
| After swallowing:   | Rinse out mouth and drink a glass of water. Call for a doctor immediately.  |

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

|                     |  |
|---------------------|--|
| After inhalation:   | Contact with mucous membranes causes irritations.                                    |
| After skin contact: | Slight irritations.  |
| After eye contact:  | Risk of corneal damage.  |
| After swallowing:   | Irritations. Gastric pain, vomiting, diarrhoea, drop in blood pressure, tachycardia. |

##### 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.<br>Avoid skin contact. |

#### 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

Absorb spilled product on an inert absorbent and arrange removal by disposal company. Clean site of spillage thoroughly with water. Don't leave any residues drying.

##### 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.

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

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): Not relevant.

### 8.2 Exposure controls

Personal protective equipment:

Respiratory protection:

Suitable respiratory equipment when vapours/aerosols are generated.

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:

Light blue

Odour:

Odourless

pH-value:

2 (20°C)

Melting temperature:

Not available

Boiling temperature:

Not available

Ignition temperature:

Not applicable

Flash point:

Not applicable

Danger of explosion:

No explosion hazard

Vapour pressure:

Not available

Density:

1,03 g/cm<sup>3</sup> (20°C)

Solubility in water:

Unlimited

## 10. Stability and reactivity

### 10.1 Reactivity

Has a corrosive effect.

### 10.2 Chemical stability

No decomposition if used and stored according to specifications.

### 10.3 Possibility of hazardous reactions

None

### 10.4 Conditions to avoid

No information available.

### 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

Akute Toxizität (copper sulphate):

LD50 (oral, rat):

960 mg/kg

Subacute/chronic toxicity:

No sensitizing effects known.

CMR effects:

Mutagenicity:

Ames-test and tests with mammalian cells 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:

copper sulphate

### 12.1 Aquatic toxicity

LC50 (96h) 0,1 mg/l (rainbow trout); may cause long-term adverse effects in the aquatic environment

### 12.2 Persistence and degradability

No further relevant information available.

|  |  |
|--|--|
| <b>12.3 Bioaccumulative potential</b>          | No further relevant information available. |
| <b>12.4 Mobility in soil</b>                   | No further relevant information available. |
| <b>12.5 Results of PBT and vPvB assessment</b> | Not applicable.                            |
| <b>12.6 Other adverse effects</b>              | No further relevant information available. |

### 13. Disposal considerations

Product must be disposed of as hazardous waste. Disposal according to official regulations. Our infosheet "Information on the working equipment for analysis methods according to Dr. Rebelein." describes the diminuation of the volumes of hazardous wastes.

### 14. Transport information

#### 14.1 UN-Number

ADR, IMDG, IATA: UN3264

#### 14.2 UN proper shipping name

ADR: 3264 CORROSIVE LIQUID; ACIDIC; INORGANIC; N.O.S.  
(SULPHURIC ACID)

IMDG, IATA: CORROSIVE LIQUID; ACIDIC; INORGANIC; N.O.S. (SULPHURIC ACID)

#### 14.3 Transport hazard class(es)

ADR: Class 8 / Corrosive substances, Label 8  
classification code C1

IMDG: Transport category 3 / LQ7 / 5 L

ADR: 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: III

#### 14.5 Environmental hazards

Marine pollutant: Yes

### 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: 2 (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.