

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 „SCHWEFEL 5“ / Rebelein „SULFUR 5“
Article: 0048 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

| | |
|--|---|
| 5.0 Combustibility | The product is not combustible. |
| 5.1 Suitable extinguishing agents | Adapted to the environmental fire. CO ₂ , powder or waterspray |
| 5.2 Special hazards arising from the substance or mixture | Risk of hazardous vapours and toxic fumes in fire (sulphur oxides). |
| 5.3 Advice for firefighters | 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/m³

8.2 Exposure controls

Personal protective equipment:

Respiratory protection:

Eye protection:

Skin protection:

General hygiene considerations:

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

Safety glasses with side-shields or face-shield.

Rubber or plastic gloves.

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 ³ (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

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| 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.