

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Sulfuric acid solution 96.00 % calibration solution for determination of viscosity according to DI

Revision date: 13.02.2024

Product code: 16352

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#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Sulfuric acid solution 96.00 % calibration solution for determination of viscosity according to DI

Substance name: sulphuric acid  
REACH Registration Number: 01-2119458838-20-XXXX  
CAS No: 7664-93-9  
Index No: 016-020-00-8  
EC No: 231-639-5  
UFI: UW8F-H1AD-R00C-GC85

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

###### Use of the substance/mixture

Laboratory chemicals  
Industrial uses: Uses of substances as such or in preparations at industrial sites  
Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

###### Uses advised against

Do not use for private purposes (household).

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

Company name: AnalytiChem GmbH  
ACD  
Street: Stempelstraße 6  
Place: D-47167 Duisburg  
Telephone: 0203/5194-0  
Telefax: 0203/5194-290  
E-mail: info@analytichem.de  
Contact person: Abteilung Produktsicherheit  
Telephone: 0203/5194-107/117  
E-mail: produktsicherheit@analytichem.de  
Internet: www.analytichem.de  
Responsible Department: Abteilung Produktsicherheit

##### 1.4. Emergency telephone number:

For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

##### Further Information

No data available

#### SECTION 2: Hazards identification

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

###### Regulation (EC) No 1272/2008

Met. Corr. 1; H290  
Skin Corr. 1A; H314  
Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

##### 2.2. Label elements

###### Regulation (EC) No 1272/2008

Signal word: Danger

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#### Pictograms:



#### 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/hearing protection.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or 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.  
P310 Immediately call a POISON CENTER/doctor.

#### 2.3. Other hazards

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Sum formula: H<sub>2</sub>SO<sub>4</sub>  
Molecular weight: 98,08 g/mol

#### Relevant ingredients

| CAS No    | Chemical name   | Quantity              |
|-----------|---|-----------------------|
|           | EC No   | Index No              |
|           | Classification (Regulation (EC) No 1272/2008)           | REACH No              |
| 7664-93-9 | sulphuric acid  | 95 - < 100 %          |
|           | 231-639-5   | 016-020-00-8          |
|           | Met. Corr. 1, Skin Corr. 1A, Eye Dam. 1; H290 H314 H318 | 01-2119458838-20-XXXX |

Full text of H and EUH statements: see section 16.

#### Specific Conc. Limits, M-factors and ATE

| CAS No    | EC No     | Chemical name  | Quantity     |
|-----------|-----------|--|--------------|
|           |           | Specific Conc. Limits, M-factors and ATE   |              |
| 7664-93-9 | 231-639-5 | sulphuric acid   | 95 - < 100 % |
|           |           | oral: LD50 = 2140 mg/kg Skin Corr. 1A; H314: >= 15 - 100 Skin Irrit. 2; H315: >= 5 - < 15<br>Eye Irrit. 2; H319: >= 5 - < 15 |              |

#### Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

First aider: Pay attention to self-protection!

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#### After inhalation

Provide fresh air.  
Call a physician immediately.

#### After contact with skin

Wash immediately with: Water  
Take off immediately all contaminated clothing and wash it before reuse.  
Call a physician immediately.

#### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.  
Remove contact lenses, if present and easy to do. Continue rinsing. Protect uninjured eye.

#### After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

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

Risk of serious damage to eyes.  
Causes burns.  
Irritant  
Cough  
Dyspnoea  
Vomiting  
Gastric perforation  
Nausea  
Abdominal pain

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

No data available

## SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

##### Unsuitable extinguishing media

no restriction

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

Non-combustible liquids  
Hazardous combustion products  
In case of fire may be liberated:  
Sulphur oxides

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.  
Avoid contact with skin, eyes and clothes.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers.  
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

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

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#### General advice

Corrosive to metals.

#### For non-emergency personnel

Provide adequate ventilation.  
Use personal protection equipment.  
Avoid contact with skin, eyes and clothes.  
Remove persons to safety.  
Emergency procedures  
Do not breathe dust/fume/gas/mist/vapours/spray.

#### For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

##### For containment

Cover drains.  
Prevent spread over a wide area (e.g. by containment or oil barriers).  
Collect in closed and suitable containers for disposal.  
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

##### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

##### Other information

Provide adequate ventilation.  
Do not breathe dust/fume/gas/mist/vapours/spray.  
Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### 6.4. Reference to other sections

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Read label before use. Handle and open container with care.  
When using do not eat, drink, smoke, sniff.  
Use personal protection equipment. Use extractor hood (laboratory).  
Provide adequate ventilation.  
Avoid contact with skin, eyes and clothes.

#### Advice on protection against fire and explosion

No special fire protection measures are necessary.

#### Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately.  
Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. Avoid: aerosol or mist formation Do not breathe vapour/aerosol.

#### Further information on handling

Draw up and observe skin protection programme.  
Wash hands and face before breaks and after work and take a shower if necessary.  
Take off immediately all contaminated clothing and wash it before reuse.

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

##### Requirements for storage rooms and vessels

Keep container tightly closed.  
Unsuitable container/equipment material: Metal

##### Further information on storage conditions

Corrosive to metals.  
The product develops hydrogen in an aqueous solution in contact with metals.

#### 7.3. Specific end use(s)

Laboratory chemicals

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

| CAS No    | Substance      | ppm | mg/m <sup>3</sup> | fib/cm <sup>3</sup> | Category  | Origin |
|-----------|----------------|-----|-------------------|---------------------|-----------|--------|
| 7664-93-9 | Sulphuric acid | -   | 0.05              |                     | TWA (8 h) |        |

##### DNEL/DMEL values

| CAS No                 | Substance      | Exposure route | Effect | Value                  |
|------------------------|----------------|----------------|--------|------------------------|
| 7664-93-9              | sulphuric acid |                |        |                        |
| Worker DNEL, long-term |                | inhalation     | local  | 0,05 mg/m <sup>3</sup> |
| Worker DNEL, acute     |                | inhalation     | local  | 0,1 mg/m <sup>3</sup>  |

##### PNEC values

| CAS No   | Substance      | Value       |
|--|----------------|-------------|
| 7664-93-9  | sulphuric acid |             |
| Freshwater                                       |                | 0,003 mg/l  |
| Marine water                                     |                | 0 mg/l      |
| Freshwater sediment                              |                | 0,002 mg/kg |
| Marine sediment                                  |                | 0,002 mg/kg |
| Micro-organisms in sewage treatment plants (STP) |                | 8,8 mg/l    |

#### 8.2. Exposure controls

##### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.  
If handled uncovered, arrangements with local exhaust ventilation have to be used.

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

##### Eye/face protection

Suitable eye protection:  
goggles  
Face protection shield

##### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the

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specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: [vertrieb@kcl.de](mailto:vertrieb@kcl.de) With specification (test according to EN374):

By long-term hand contact

Trade name/designation KCL 890 Vitoject®  
Recommended material: FKM (fluoro rubber) 0,7 mm  
Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation KCL 720 Camapren®  
Recommended material: CR (polychloroprene, chloroprene rubber) 0,65 mm  
Wearing time with occasional contact (splashes): > 60 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

#### Skin protection

Wear suitable protective clothing. Take off immediately all contaminated clothing.  
Wash hands before breaks and after work.

#### Respiratory protection

Respiratory protection necessary at: aerosol or mist formation  
Filtering device with filter or ventilator filtering device of type: ABEK

#### Environmental exposure controls

Do not allow to enter into surface water or drains.

## SECTION 9: Physical and chemical properties

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

|   |                     |
|---|---------------------|
| Physical state:   | Liquid              |
| Colour:   | colourless          |
| Odour:  | odourless           |
| Odour threshold:  | No data available   |
| Melting point/freezing point:                             | -20 °C              |
| Boiling point or initial boiling point and boiling range: | 335 °C              |
| Flammability:   | No data available   |
| Lower explosion limits:                                   | No data available   |
| Upper explosion limits:                                   | No data available   |
| Flash point:  | X                   |
| Auto-ignition temperature:                                | No data available   |
| Decomposition temperature:                                | No data available   |
| pH-Value (at 20 °C):                                      | 0,3 (49 g/l)        |
| Viscosity / kinematic:                                    | No data available   |
| Water solubility:   | very soluble (Heat) |

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#### Solubility in other solvents

No data available

#### Dissolution rate:

No data available

#### Partition coefficient n-octanol/water:

No data available

#### Dispersion stability:

No data available

#### Vapour pressure: (at 20 °C)

0,0001 hPa

#### Vapour pressure: (at 50 °C)

0,004 hPa

#### Density:

~1,84 g/cm<sup>3</sup>

#### Bulk density:

No data available

#### Relative vapour density:

3,4

#### Particle characteristics:

No data available

## 9.2. Other information

### Information with regard to physical hazard classes

#### Explosive properties

No data available

#### Sustaining combustion:

No data available

#### Self-ignition temperature

Solid:

No data available

Gas:

No data available

#### Oxidizing properties

No data available

### Other safety characteristics

#### Evaporation rate:

No data available

#### Solvent separation test:

No data available

#### Solvent content:

No data available

#### Solid content:

No data available

#### Sublimation point:

No data available

#### Softening point:

No data available

#### Pour point:

No data available

#### No data available:

#### Viscosity / dynamic: (at 20 °C)

24 mPa·s

#### Flow time:

No data available

### Further Information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Corrosive to metals.

Oxidising agent, strong

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

Violent reaction with:

Water, Alkali metals, Ammonia

aldehydes, Alkaline earth metal, Acids

Alkali (lye), Metal,

Phosphorus oxides, Combustible substance

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Solvent, Aniline, permanganates, e.g. potassium permanganate  
Peroxides, Amines, Carbide  
peroxides, for example hydrogen peroxide , Nitriles

**10.4. Conditions to avoid**

No data available

**10.5. Incompatible materials**

Metal  
The product develops hydrogen in an aqueous solution in contact with metals.  
Cellulose

**10.6. Hazardous decomposition products**

In case of fire may be liberated:  
SECTION 5: Firefighting measures

**Further information**

No data available

**SECTION 11: Toxicological information**

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Toxicokinetics, metabolism and distribution**

No data available

**Acute toxicity**

Based on available data, the classification criteria are not met.  
If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).  
Irritation to respiratory tract (Cough, Dyspnoea)

| CAS No    | Chemical name  |                 |         |  |  |
|-----------|----------------|-----------------|---------|--|--|
|           | Exposure route | Dose            | Species | Source                                   | Method                                   |
| 7664-93-9 | sulphuric acid |                 |         |  |  |
|           | oral           | LD50 2140 mg/kg | Rat     | Am Ind Hyg Assoc J. 1969 Sep-Oct; 30(5): | The study was performed as part of a ser |

**Irritation and corrosivity**

Causes severe skin burns and eye damage.  
Causes serious eye damage.  
Risk of serious damage to eyes.

**Sensitising effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Information on likely routes of exposure**

No data available

**Specific effects in experiment on an animal**

No data available



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**Additional information on tests**

No data available

**Practical experience**

No data available

**11.2. Information on other hazards**

**Endocrine disrupting properties**

No data available

**Other information**

No data available

**Further information**

Risk of serious damage to eyes.

Causes burns.

Irritant

Cough

Dyspnoea

Vomiting

Gastric perforation

Nausea

Abdominal pain

**SECTION 12: Ecological information**

**12.1. Toxicity**

Based on available data, the classification criteria are not met.

| CAS No    | Chemical name            |               |           |         |                            |   |
|-----------|--------------------------|---------------|-----------|---------|----------------------------|---|
|           | Aquatic toxicity         | Dose          | [h]   [d] | Species | Source                     | Method  |
| 7664-93-9 | sulphuric acid           |               |           |         |                            |   |
|           | Acute algae toxicity     | ErC50<br>mg/l | > 100     | 72 h    | Desmodesmus<br>subspicatus | Study report<br>(2009)<br>OECD Guideline<br>201   |
|           | Acute crustacea toxicity | EC50<br>mg/l  | > 100     | 48 h    | Daphnia magna              | Study report<br>(2009)<br>OECD Guideline<br>202   |
|           | Fish toxicity            | NOEC<br>mg/l  | 0,025     | 65 d    | Jordanella floridae        | Water Research<br>Vol. 11, 612 - 626,<br>1977<br>Groups of<br>sexually mature<br>flagfish |

**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 does not meet the PBT/vPvB criteria of REACH, annex XIII.

**12.6. Endocrine disrupting properties**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

**12.7. Other adverse effects**

Avoid release to the environment.

**Further information**

Do not allow to enter into surface water or drains.

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#### SECTION 13: Disposal considerations

##### 13.1. Waste treatment methods

###### Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Send to a physico-chemical treatment facility under observation of official regulations.

Do not mix with other wastes.

Do not allow to enter into surface water or drains.

###### Contaminated packaging

Handle contaminated packages in the same way as the substance itself. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

#### SECTION 14: Transport information

##### Land transport (ADR/RID)

|  |                |
|--|----------------|
| <b>14.1. UN number or ID number:</b>     | UN 1830        |
| <b>14.2. UN proper shipping name:</b>    | SULPHURIC ACID |
| <b>14.3. Transport hazard class(es):</b> | 8              |
| <b>14.4. Packing group:</b>              | II             |
| Hazard label:                            | 8              |
| Classification code:                     | C1             |
| Limited quantity:                        | 1 L            |
| Excepted quantity:                       | E2             |
| Transport category:                      | 2              |
| Hazard No:                               | 80             |
| Tunnel restriction code:                 | E              |

##### Inland waterways transport (ADN)

|  |                |
|--|----------------|
| <b>14.1. UN number or ID number:</b>     | UN 1830        |
| <b>14.2. UN proper shipping name:</b>    | Sulphuric acid |
| <b>14.3. Transport hazard class(es):</b> | 8              |
| <b>14.4. Packing group:</b>              | II             |
| Hazard label:                            | 8              |
| Classification code:                     | C1             |
| Limited quantity:                        | 1 L            |
| Excepted quantity:                       | E2             |

##### Marine transport (IMDG)

|  |                |
|--|----------------|
| <b>14.1. UN number or ID number:</b>     | UN 1830        |
| <b>14.2. UN proper shipping name:</b>    | Sulphuric acid |
| <b>14.3. Transport hazard class(es):</b> | 8              |
| <b>14.4. Packing group:</b>              | II             |
| Hazard label:                            | 8              |
| Special Provisions:                      | -              |
| Limited quantity:                        | 1 L            |
| Excepted quantity:                       | E2             |
| EmS:                                     | F-A, S-B       |

##### Air transport (ICAO-TI/IATA-DGR)

|  |                |
|--|----------------|
| <b>14.1. UN number or ID number:</b>     | UN 1830        |
| <b>14.2. UN proper shipping name:</b>    | SULPHURIC ACID |
| <b>14.3. Transport hazard class(es):</b> | 8              |
| <b>14.4. Packing group:</b>              | II             |
| Hazard label:                            | 8              |

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|  |       |      |
|--|-------|------|
| Limited quantity Passenger:            | 0.5 L |      |
| Passenger LQ:                          | Y840  |      |
| Excepted quantity:                     | E2    |      |
| IATA-packing instructions - Passenger: |       | 851  |
| IATA-max. quantity - Passenger:        |       | 1 L  |
| IATA-packing instructions - Cargo:     |       | 855  |
| IATA-max. quantity - Cargo:            |       | 30 L |

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

Warning: strongly corrosive.

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

**SECTION 15: Regulatory information**

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

**EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3

Marketing and use of explosives precursors (Regulation (EU) 2019/1148):

Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

**SECTION 16: Other information**

**Changes**

This data sheet contains changes from the previous version in section(s): 1,12.

**Abbreviations and acronyms**

Met. Corr: Substance or mixture corrosive to metals

Skin Corr: Skin corrosion

Eye Dam: Eye damage

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

**Relevant H and EUH statements (number and full text)**

|      |  |
|------|--|
| H290 | May be corrosive to metals.              |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage.               |

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#### **Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The receiver of our product is singularly responsible for adhering to existing laws and regulations.