

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 07.12.2020

Version number 2

Revision: 09.03.2020

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

· **1.1 Product identifier**

· **Trade name:** sulphuric acid 95-98%

· **Chemical Identification:**

sulphuric acid

sulfuric acid

· **Article number:** 1955

· **CAS Number:**

7664-93-9

· **EC number:**

231-639-5

· **Index number:**

016-020-00-8

· **Registration number**

A registration number is not available for this substance as the substance or its uses are exempted from registration or the annual tonnage does not require a registration.

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

· **Application of the substance / the mixture**

Chemical for research, development, manufacturing, laboratory chemical for analysis.

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Biosolve Chimie

20 Rue Roger Husson, 57260 Dieuze, France

Tel: +33 3 878 675 80/81/82/83/84/85

Email: info@biosolvechimie.com

Biosolve B.V.

Leenderweg 78, 5555 CE Valkenswaard, the Netherlands.

Tel: +31-(0)40-2071300

Fax: +31-(0)40-2048537

Email: info@biosolve-chemicals.com

· **Further information obtainable from:** Product safety department.

· **1.4 Emergency telephone number:**

Contact list of appointed bodies for information relating to emergency health response, according to Art. 45(1) Reg. (EC) No 1272/2008.

see: <https://poisoncentres.echa.europa.eu/home>.

Help desk: <http://echa.europa.eu/web/guest/support/helpdesks/national-helpdesks/list-of-national-helpdesks>).

Data from: ECHA - EUROPEAN CHEMICALS AGENCY

For more information see section 16.

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

Carc. 1A

H350 May cause cancer.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.12.2020

Version number 2

Revision: 09.03.2020

Trade name: sulphuric acid 95-98%

(Contd. of page 1)


GHS05 corrosion
Skin Corr. 1A H314 Causes severe skin burns and eye damage.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

· Hazard pictograms


GHS05

GHS08

· Signal word *Danger*

· Hazard statements

H314 Causes severe skin burns and eye damage.
H350 May cause cancer.

· Precautionary statements

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.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Additional information:

Restricted to professional users.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT:

Not applicable.

· vPvB:

Not applicable.

SECTION 3: Composition/information on ingredients

· 3.1 Chemical characterisation: Substances

· CAS No. Description

7664-93-9 sulphuric acid 95-98%

· Identification number(s)

· EC number:

231-639-5

· Index number:

016-020-00-8

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

· After inhalation:

In case of unconsciousness place patient stably in side position for transportation.

(Contd. on page 3)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 07.12.2020

Version number 2

Revision: 09.03.2020

Trade name: sulphuric acid 95-98%

(Contd. of page 2)

- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**
 No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
 No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
 Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
 Use neutralising agent.
 Dispose contaminated material as waste according to item 13.
 Ensure adequate ventilation.
- **6.4 Reference to other sections**
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
 Avoid breathing vapor. Avoid contact with skin and eyes. Avoid ingestion and inhalation.
 Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:** The product is not flammable.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
 Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 07.12.2020

Version number 2

Revision: 09.03.2020

Trade name: sulphuric acid 95-98%

(Contd. of page 3)

SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

CAS: 7664-93-9 sulphuric acid 95-98%

IOELV Long-term value: 0.05 mg/m³

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Protection of hands:**

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

EU

(Contd. on page 5)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 07.12.2020

Version number 2

Revision: 09.03.2020

Trade name: sulphuric acid 95-98%

(Contd. of page 4)

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· Form:	Liquid
· Colour:	Clear, light yellow.
· Odour:	Characteristic
· Odour threshold:	No data available.

· **pH-value:** No data available

· **Change in condition**

· Melting point/freezing point:	No data available.
· Initial boiling point and boiling range:	295-315 °C

· **Flash point:** Not applicable.

· **Flammability (solid, gas):** Not applicable.

· **Decomposition temperature:** No data available

· **Auto-ignition temperature:** No data available

· **Explosive properties:** Product does not present an explosion hazard.

· **Explosion limits:**

· Lower:	No data available
· Upper:	No data available

· **Vapour pressure at 20 °C:** <0.01 hPa

· Density at 20 °C:	1.84 g/cm ³
· Relative density	No data available
· Vapour density	No data available
· Evaporation rate	Not applicable.

· **Solubility in / Miscibility with water:** Fully miscible.

· **Partition coefficient: n-octanol/water:** No data available

· **Viscosity:**

· **Dynamic at 20 °C:** 23 mPas

· **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.

· **10.2 Chemical stability**

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **10.3 Possibility of hazardous reactions** No dangerous reactions known.

· **10.4 Conditions to avoid** No further relevant information available.

· **10.5 Incompatible materials:** No further relevant information available.

(Contd. on page 6)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 07.12.2020

Version number 2

Revision: 09.03.2020

Trade name: sulphuric acid 95-98%

(Contd. of page 5)

· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes severe skin burns and eye damage.
- **Serious eye damage/irritation**
Causes severe skin burns and eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity**
May cause cancer.
- **Reproductive toxicity** 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.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralised.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

HP7	Carcinogenic
HP8	Corrosive

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.12.2020

Version number 2

Revision: 09.03.2020

Trade name: sulphuric acid 95-98%

(Contd. of page 6)

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

 · **14.1 UN-Number**

 · **ADR, IMDG** UN1830

 · **14.2 UN proper shipping name**

 · **ADR** UN1830 SULPHURIC ACID
 · **IMDG** SULPHURIC ACID

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

 · **ADR**

 · **Class** 8 (CI) Corrosive substances.
 · **Label** 8

 · **IMDG, IATA**

 · **Class** 8 Corrosive substances.
 · **Label** 8

 · **14.4 Packing group**

 · **ADR, IMDG, IATA** II

 · **14.5 Environmental hazards:**

 · **Marine pollutant:** No

 · **14.6 Special precautions for user**

 · **Hazard identification number (Kemler code):** Warning: Corrosive substances.
 · **EMS Number:** 80
 · **Segregation groups** 8-06
 · **Stowage Category** Strong acids
 · **Stowage Code** C
 · **Segregation Code** SW15 For metal drums, stowage category B.
SG36 Stow "separated from" SGG18-alkalis.
SG49 Stow "separated from" SGG6-cyanides

 · **14.7 Transport in bulk according to Annex II of**

 · **Marpol and the IBC Code** Not applicable.

(Contd. on page 8)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 07.12.2020

Version number 2

Revision: 09.03.2020

Trade name: sulphuric acid 95-98%

(Contd. of page 7)

· Transport/Additional information:

· ADR

- **Limited quantities (LQ)**
- **Excepted quantities (EQ)**

1L
Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

- **Transport category**
- **Tunnel restriction code**

2
E

· IMDG

- **Limited quantities (LQ)**
- **Excepted quantities (EQ)**

1L
Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation":

UN 1830 SULPHURIC ACID, 8, II

SECTION 15: Regulatory information

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

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** Substance is not listed.
- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
Substance is not listed.
- **National regulations:**
- **Additional classification according to Decree on Hazardous Materials, Annex II:**
Carcinogenic hazardous material group I (extremely dangerous).
Carcinogenic hazardous material group II (very dangerous).
Carcinogenic hazardous material group III (dangerous).

· Information about limitation of use:

Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Product safety department

· Contact:

EU Poison Centers:

Country Telephone number

Austria +4314064343

Belgium 070 245245

Bulgaria (+)35929154233

Croatia (+3851)23-48-342

(Contd. on page 9)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 07.12.2020

Version number 2

Revision: 09.03.2020

Trade name: sulphuric acid 95-98%

(Contd. of page 8)

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 Finland 9471977
 France +33(0)145425959
 Hungary (+36-80)201-199
 Iceland 5432222
 Ireland +353(1)8092166
 Italy BERGAMO Ospedali Riuniti di Bergamo Tel. 800 88.33.00
 FIRENZE Azienda Ospedaliera Careggi Tel. 055 79.47.819
 MILANO Azienda Ospedaliera Niguarda Cà Granda Tel. 02 66.10.10.29
 NAPOLI Ospedale Vincenzo Cardarelli Tel. 081 74.72.870
 PAVIA Fondazione Salvatore Maugeri Tel. 0382 24.444
 ROMA Policlinico Universitario "A. Gemelli" Tel. 06 30.54.343
 ROMA Università degli Studi di Roma "La Sapienza" Tel. 06 49.97.80.00
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 Sweden 112 (begär
 Giftinformation); +46104566786
 Switzerland 145

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 ICAO: International Civil Aviation Organisation
 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 Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 Skin Corr. 1A: Skin corrosion/irritation – Category 1A
 Carc. 1A: Carcinogenicity – Category 1A

*** Data compared to the previous version altered.**