

Trade name: Acid sulfuricum 95%

Substance number: 206375

Version: 5 / CH

Date revised: 22.09.2025

Replaces Version: 4 / CH

Print date: 22.09.25

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Acid sulfuricum 95%

Item No. 20637500

Substance / product identification

UFI XCYJ-61DQ-D009-85S1

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/preparation**

Chemical

1.3. Details of the supplier of the safety data sheet**Address/Manufacturer**

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible
for this SDS**1.4. Emergency telephone number**

Switzerland :145 / Abroad +41 (0)44 251 51 51

SECTION 2: Hazards identification *****2.1. Classification of the substance or mixture****Classification (Regulation (EC) No. 1272/2008)**

Classification (Regulation (EC) No. 1272/2008)

Skin Corr. 1A H314

Eye Dam. 1 H318

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements**Labelling according to regulation (EC) No 1272/2008****Hazard pictograms****Signal word**

Danger

Hazard statements

H314 Causes severe skin burns and eye damage.

Precautionary statements ***

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P264.1 Wash hands thoroughly after handling.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 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 or doctor.
 P501.3 Disposal in compliance with local and national regulations.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains *** sulphuric acid

Reduced labeling (<= 125 ml)**Hazard pictograms *******Signal word *****

Danger

Hazard statements ***

H314 Causes severe skin burns and eye damage.

Precautionary statements ***

P264.1 Wash hands thoroughly after handling.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 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 or doctor.
 P501.3 Disposal in compliance with local and national regulations.

2.3. Other hazards

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients *****Hazardous ingredients *******sulphuric acid**

CAS No. 7664-93-9
 EINECS no. 231-639-5
 Registration no. 01-2119458838-20-XXXX
 Concentration >= 50 %
 Classification (Regulation (EC) No. 1272/2008)
 Skin Corr. 1A H314

Concentration limits (Regulation (EC) No. 1272/2008)

Eye Irrit. 2	H319	>= 5 < 15 %
Skin Corr. 1A	H314	>= 15 %
Skin Irrit. 2	H315	>= 5 < 15 %

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Additional remarks:
CLP

Regulation (EC) No 1272/2008, Annex VI, Note B

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, soaked clothing immediately and dispose of safely.

After inhalation

Remove the casualty into fresh air and keep him calm. Irregular breathing/no breathing: artificial respiration. Summon a doctor immediately.

After skin contact

Affected skin should first be dabbed with cotton wool, then washed with plenty of water and a mild cleanser. After contact with skin, wash immediately with plenty of water. Summon a doctor immediately.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

After ingestion

Rinse out mouth and give plenty of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting. Summon a doctor immediately.

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

Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

5.2. Special hazards arising from the substance or mixture

Development of toxic gases; In the event of fire the following can be released: Sulfuroxides (SO_x)

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus. Wear full protective suit.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Ensure adequate ventilation. Avoid contact with eyes and skin. Do not inhale vapours.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Advise water authority if spillage has entered water course or drainage system. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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6.3. Methods and material for containment and cleaning up

Neutralise with: milk of lime. Rinse away rest with plenty of water. When picked up, treat material as prescribed under Section 13 "Disposal". Pick up with absorbent material (eg sand, kieselgur, acid binder, universal binder). Send in suitable containers for recovery or disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Keep container tightly closed. Wear protective equipment. Avoid inhaling dusts/ billows/ steams. Avoid contact with skin and eyes. When diluting, always stir product into water. Smoking, eating and drinking should be prohibited in application area. No special requirements. Avoid inhaling dusts/ billows/ steams.

Advice on protection against fire and explosion

The product is not combustible.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Provide acid-resistant floor. Keep only in original packaging.

Hints on storage assembly

Do not store together with animal feedstocks. Do not store together with foodstuffs. Do not store with combustible materials.

Storage classes

Storage class according to TRGS 510	8B	Non-combustible corrosive hazardous substances
Storage category (Switzerland)	8	Caustic and corrosive substances

Further information on storage conditions

Keep container tightly closed, cool and dry. Keep container in a well-ventilated place. Product is hygroscopic.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

sulphuric acid

List	SUVA	
Type	MAK	
Value	0,1	mg/m ³
Short term exposure limit	0,2	mg/m ³
Pregnancy group: S Remarks: C1#A SSc; Lunge; IFA NIOSH OSHA		

Derived No/Minimal Effect Levels (DNEL/DMEL)

sulphuric acid

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	0.1	mg/m ³

Type of value	Derived No Effect Level (DNEL)
Reference group	Worker
Duration of exposure	Long term

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Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	0.05	mg/m ³

Predicted No Effect Concentration (PNEC)**sulphuric acid**

Type of value	PNEC	
Type	Freshwater	
Concentration	0.0025	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0.00025	mg/l
Type of value	PNEC	
Type	Sediment	
Concentration	0.002	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0.002	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	8.8	mg/l

8.2. Exposure controls**General protective and hygiene measures**

Keep away from food-stuffs, beverages and feed-stocks. Do not eat, drink or smoke during work time. Avoid contact with skin and eyes. Hold eye wash fountain available. Wash hands before breaks and after work. Remove contaminated, soaked clothing immediately and dispose of safely. Do not inhale vapours. Do not inhale mist.

Respiratory protection

Breathing apparatus in the event of vapours. Breathing apparatus in the event of aerosol or mist formation. combination filter E-P2

Hand protection

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

Appropriate Material	Fluoro carbon rubber - FKM
Material thickness	0.5 mm
Breakthrough time	>= 8 h
Appropriate Material	Butyl rubber - Butyl
Material thickness	0.5 mm
Breakthrough time	>= 2 h

Eye protection

Tightly fitting safety glasses

Body protection

Acid-resistant protective clothing

SECTION 9: Physical and chemical properties

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9.1. Information on basic physical and chemical properties**Physical state**

liquid

Colour

colourless

Odour

odourless

Melting point

Value	appr. -14	to	-10	°C
Remarks	undiluted product			

Boiling point or initial boiling point and boiling range

Value	appr. 310	°C
Pressure	1.0130	hPa

Flammability

evaluation	Not self inflammable
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Flash point

Remarks	Not applicable
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pH value

Remarks	acidic
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Viscosity**dynamic**

Value	21	mPa.s
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kinematic

Remarks	No data available
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Partition coefficient n-octanol/water (log value)

Remarks	Not applicable
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Vapour pressure

Value	< 0.0001	hPa
Temperature	20	°C
Value	0.01	hPa
Temperature	55	°C

Density and/or relative density

Value	1.84	g/cm ³
Temperature	20	°C

9.2. Other information**Solubility in water**

Remarks	soluble
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SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

Stable until 300°C

10.3. Possibility of hazardous reactions

Water

10.4. Conditions to avoid

Protect from atmospheric moisture and water.

10.5. Incompatible materials

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Reactions with metals, with evolution of hydrogen. Exothermic reaction with: Water, Reacts violently with: Bases, Water, Incompatible with: Organic materials, Bases, Reducing agents, Metals

10.6. Hazardous decomposition productssulphurous oxides (SO_x), Sulphur dioxide, Sulphur trioxide**Other information**

Corrosive to metals.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

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

Acute oral toxicity (Components)**sulphuric acid**

Species	rat		
LD50	2140		mg/kg
Remarks	Ingestion causes burns of the upper digestive and respiratory tracts.		

Acute dermal toxicity

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

Acute dermal toxicity (Components)**sulphuric acid**

Remarks No data available.

Acute inhalational toxicity

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

Acute inhalative toxicity (Components)**sulphuric acid**

Species	rat		
LC50	375		mg/m ³
Duration of exposure	4	h	
Method	OECD 403		

Skin corrosion/irritation

evaluation	corrosive
Remarks	The classification criteria are met.

Skin corrosion/irritation (Components)**sulphuric acid**

evaluation	strongly corrosive
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Serious eye damage/irritation

evaluation	corrosive
Remarks	The classification criteria are met.

Serious eye damage/irritation (Components)**sulphuric acid**

evaluation	strongly corrosive
Remarks	Risk of serious damage to eyes.

Sensitization

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

Sensitization (Components)**sulphuric acid**

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Remarks No data available.

Mutagenicity

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

Mutagenicity (Components)**sulphuric acid**

Remarks Not documented.

Reproductive toxicity

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

Reproduction toxicity (Components)**sulphuric acid**

evaluation No negative effects

Carcinogenicity

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

Carcinogenicity (Components)**sulphuric acid**

Remarks Not documented.

Specific Target Organ Toxicity (STOT)**Single exposure**

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

Repeated exposure

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

Specific Target Organ Toxicity (STOT) (Components)**sulphuric acid****Single exposure**

evaluation No indications of STOT effects are available.

sulphuric acid**Repeated exposure**

evaluation No indications of STOT effects are available.

Aspiration hazard

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

11.2. Information on other hazards**Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

Experience in practice

Ingestion of aqueous solution causes burns in: Mouth. Throat. Perforation of gullet and stomach.

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity (Components)****sulphuric acid**

Species	Bluegill (<i>Lepomis macrochirus</i>)		
LC50	16	28	mg/l
Duration of exposure	96	h	

sulphuric acid

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LC50	794		mg/l
Duration of exposure	24	h	
Method	OECD 203		

Daphnia toxicity (Components)**sulphuric acid**

Species	Daphnia magna		
EC50	> 100		mg/l
Duration of exposure	48	h	
Method	OECD 201		

sulphuric acid

Species	Daphnia magna		
EC50	29		mg/l
Duration of exposure	24	h	
Method	ISO 6341		

Algae toxicity (Components)**sulphuric acid**

Species	Desmodesmus subspicatus		
IC50	> 100		mg/l
Duration of exposure	72	h	
Method	OECD 201		

sulphuric acid

EC50	> 50		mg/l
Duration of exposure	24	h	
Method	OECD 201		

Bacteria toxicity (Components)**sulphuric acid**

Species	activated sludge		
EC50	58		mg/l
Duration of exposure	120	h	

12.2. Persistence and degradability**Biodegradability**

Remarks	Not applicable.
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Biodegradability (Components)**sulphuric acid**

Remarks	Inorganic product, cannot be eliminated from the water by biological purification processes.
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12.3. Bioaccumulative potential**Partition coefficient n-octanol/water (log value)**

Remarks	Not applicable
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12.5. Results of PBT and vPvB assessment**Results of PBT and vPvB assessment**

The product contains no PBT substances
The product contains no vPvB substances.

12.6 Endocrine disrupting properties**Endocrine disrupting properties with respect to the environment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

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12.7. Other adverse effects**General information / ecology**

Harmful to aquatic organisms. Neutralization is normally necessary before waste water is discharged into water treatment plants. Do not allow it to reach soil, ground water, water bodies or sewage system.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

EWC waste code

No not dispose with rubbish.

EWC waste code

Should not be released into the sanitary sewer system.

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging




EWC waste code

Should not be released into the sanitary sewer system.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Disposal in compliance with local and national regulations.

SECTION 14: Transport information ***

	Land transport ADR/RID ***	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number or ID number	1830	1830	1830
14.2. UN proper shipping name	SULPHURIC ACID, Solution	SULPHURIC ACID, Solution	SULPHURIC ACID, Solution
14.3. Transport hazard class(es)	8	8	8
Label			
14.4. Packing group	II	II	II
Limited Quantity	1 I	1 I	
Transport category	2		
14.5. Environmental hazards	-		
Tunnel restriction code	E		

SECTION 15: Regulatory information *****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Water Hazard Class (Germany)**

Water Hazard Class

WGK 1

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(Germany)

Remarks

Derivation of WGK according to Annex 1 No. 5.2 AwSV

Other information ***

The product does not contain substances according to Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH) with a content of $\geq 0.1\%$ w/w.

15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

Classification (Regulation (EC) No. 1272/2008)

Skin Corr. 1A

H314

Calculation method

Eye Dam. 1

H318

Calculation method

Hazard statements listed in Chapter 2/3

H314

Causes severe skin burns and eye damage.

H318

Causes serious eye damage.

CLP categories listed in Chapter 2/3

Eye Dam. 1

Serious eye damage, Category 1

Skin Corr. 1A

Skin corrosion, Category 1A

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.