

Trade name: Acid sulfuricum 94%

Substance number: 206250

Version: 6 / CH

Date revised: 18.06.2020

Replaces Version: 5 / CH

Print date: 18.06.20

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

Acid sulfuricum 94%

Item No. 20625000

Registration no.

EC No.: 231-639-5

Registration no. 01-2119458838-20-XXXX

CAS No. 7664-93-9

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 ***

P264.1 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

Trade name: Acid sulfuricum 94%

Substance number: 206250

Version: 6 / CH

Date revised: 18.06.2020

Replaces Version: 5 / CH

Print date: 18.06.20

P308 lenses, if present and easy to do. Continue rinsing.
 IF exposed or concerned:
 P310 Immediately call a POISON CENTER or doctor.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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

contains Sulphuric acid

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 \geq 50 %
 Classification (Regulation (EC) No. 1272/2008)
 Skin Corr. 1A H314

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

Eye Irrit. 2 H319 $\geq 5 < 15$
 Skin Corr. 1A H314 ≥ 15
 Skin Irrit. 2 H315 $\geq 5 < 15$

CLP Regulation (EC) No 1272/2008, Annex VI, Note B
 DSD Directive 67/548/EEC, Annex I, Note B

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Remove affected person from danger area, lay him down. Adhere to personal protective measures when giving first aid. Remove contaminated, soaked clothing immediately and dispose of safely.

After inhalation

If the patient is likely to become unconscious, place and transport in stable sideways position.

After skin contact

Wash off immediately with soap and water and rinse well. Summon a doctor immediately.

After eye contact

Shield unaffected eye. Separate eyelids, wash the eyes thoroughly with water (15 min.). Take medical treatment.

After ingestion

Rinse out mouth and give plenty of water to drink. No trials on neutralisation. Take affected person to fresh air. Summon a doctor immediately.

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

Irritating to respiratory system. Irritation of mucosa, Chemical burn, Gastrointestinal complaints, bleeding vomiting

4.3. Indication of any immediate medical attention and special treatment needed**Hints for the physician / hazards**

Frequent and persistent contact with the skin can cause dermatitis. Risk of stomach perforation

SECTION 5: Firefighting measures

Trade name: Acid sulfuricum 94%

Substance number: 206250

Version: 6 / CH

Date revised: 18.06.2020

Replaces Version: 5 / CH

Print date: 18.06.20

5.1. Extinguishing media**Suitable extinguishing media**

Carbon dioxide, Dry powder, Water spray jet, Extinguish greater fire with water spray or alcohol-resistant foam.

5.2. Special hazards arising from the substance or mixture

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.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep away unprotected persons.

6.2. Environmental precautions

Dilute with lot of water. Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (eg sand, kieselguhr, universal binder). Clean up affected area. When picked up, treat material as prescribed under Section 13 "Disposal". Ensure adequate ventilation.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Use enclosed conveying equipment. When diluting, always stir product into water.

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. Polyethylene. Polypropylene. Do not use metal containers and metal pinings.

Hints on storage assembly

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 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

Trade name: Acid sulfuricum 94%

Substance number: 206250

Version: 6 / CH

Date revised: 18.06.2020

Replaces Version: 5 / CH

Print date: 18.06.20

Short term exposure limit 0,1 mg/m³

Pregnancy group: S; Status: 2017; Remarks: SSc; LungeKT HU; DFG, NIOSH, OSHA

8.2. Exposure controls

General protective and hygiene measures

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

Respiratory protection

necessary; combination filter BE-P2

Hand protection

Gloves (acid-resistant)

Appropriate Material Fluoro carbon rubber - FKM

Material thickness 0.4 mm

Breakthrough time 8 h

Protective gloves

Not suitable: rubber gloves

Not suitable: PVC gloves

Not suitable: gloves made of thick material

Not suitable: leather gloves

Not suitable: gloves of nitrile rubber - NBR

Not suitable: gloves of polychloroprene

Gloves of natural latex

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.

Eye protection

Tightly fitting safety glasses; Face shield

Body protection

Acid-resistant protective clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form liquid
Colour almost colourless
Odour odourless

pH value
 Value < 1
 Temperature 20 °C

Freezing point
 Value appr. -10 °C

Initial boiling point and boiling range
 Value appr. 310 °C
 Pressure 1013 hPa

Flash point
 Value °C
 Remarks Not applicable

Vapour pressure
 Value < 0.0001 hPa
 Temperature 20 °C

Trade name: Acid sulfuricum 94%

Substance number: 206250

Version: 6 / CH

Date revised: 18.06.2020

Replaces Version: 5 / CH

Print date: 18.06.20

Density

Value	1.84	g/cm ³
Method	DIN 51757	

Solubility in water

Remarks	soluble
---------	---------

Viscosity**dynamic**

Value	appr. 26.9	mPa.s
Temperature	20 °C	

Oxidising properties

evaluation	oxidizing
------------	-----------

9.2. Other information**Other information**

The product is not dangerous for explosions.

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

Reacts violently with water.

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

Water

10.4. Conditions to avoid

Water. To avoid thermal decomposition, do not overheat.

10.5. Incompatible materials

Water, Addition of water leads to increase in temperature. Partly very violent reactions with bases and numerous organic classes of substances such as alcohols and amines. Reactions with metals, with evolution of hydrogen. Explosive, Violent reaction with organic compounds like wood, paper, grease.

10.6. Hazardous decomposition productsCorrosive gases/vapours, sulphurous oxides (SO_x)**Other information**

When diluting, add acids to water, never the other way around.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity (Components)****Sulphuric acid**

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

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

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

Trade name: Acid sulfuricum 94%

Substance number: 206250

Version: 6 / CH

Date revised: 18.06.2020

Replaces Version: 5 / CH

Print date: 18.06.20

Method OECD 403

Skin corrosion/irritation

evaluation strongly corrosive

Remarks Corrosive action on the skin and mucous membrane.

Serious eye damage/irritation

Species rabbit

evaluation strongly corrosive

Remarks Risk of serious damage to eyes.

Sensitization

evaluation non-sensitizing

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 (*Lepomis macrochirus*)

LC50 16 to 28 mg/l

Duration of exposure 96 h

Daphnia toxicity (Components)**Sulphuric acid**Species *Daphnia magna*

EC50 > 100 mg/l

Duration of exposure 48 h

Method OECD 202

Sulphuric acidSpecies *Daphnia magna*

EC50 29 mg/l

Duration of exposure 24 h

Algae toxicity (Components)**Sulphuric acid**Species *Desmodesmus subspicatus*

IC50 > 100 mg/l

Duration of exposure 72 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**General information**

Not applicable

12.3. Bioaccumulative potential**General information**

Not applicable

Trade name: Acid sulfuricum 94%

Substance number: 206250

Version: 6 / CH

Date revised: 18.06.2020

Replaces Version: 5 / CH

Print date: 18.06.20

12.4. Mobility in soil**General information**

Not applicable

12.5. Results of PBT and vPvB assessment**General information**

Not applicable

12.6. 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 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.

Disposal in compliance with local and national regulations.




EWC waste code

Should not be released into the sanitary sewer system.

Disposal recommendations for packaging

Disposal in compliance with local and national regulations.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	E		
14.1. UN 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		
Transport category	2		

SECTION 15: Regulatory information *****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Trade name: Acid sulfuricum 94%

Substance number: 206250

Version: 6 / CH

Date revised: 18.06.2020

Replaces Version: 5 / CH

Print date: 18.06.20

Water Hazard Class (Germany) ***

Water Hazard Class WGK 1

(Germany)

Remarks

Derivation of WGK according to Annex 1 No. 5.2 AwSV

SECTION 16: Other information**Hazard statements listed in Chapter 3**

H314

Causes severe skin burns and eye damage.

CLP categories listed in Chapter 3

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.