

Trade name: Acid aceticum glaciale 99%

Substance number: 201125

Version: 3 / CH

Date revised: 27.03.2019

Replaces Version: 2 / CH

Print date: 27.03.19

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

1.1. Product identifier

Acid aceticum glaciale 99%

Item No. 20112500

Substance / product identification

CAS-No. 64-19-7

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Hänseler AG

Industriestrasse 35

9101 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)

Flam. Liq. 3 H226

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

H226 Flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

Precautionary statements ***

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

Trade name: Acid aceticum glaciale 99%

Substance number: 201125

Version: 3 / CH

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P305+P351+P338 comfortable for breathing.
 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.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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

contains *** Acetic acid

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

| | | |
|--|-----------------------|------|
| CAS No. | 64-19-7 | |
| EINECS no. | 200-580-7 | |
| Registration no. | 01-2119475328-30-XXXX | |
| Concentration | >= 90 | % |
| Classification (Regulation (EC) No. 1272/2008) | | |
| | Flam. Liq. 3 | H226 |
| | Skin Corr. 1A | H314 |

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

| | | |
|---------------|------|------------|
| Eye Irrit. 2 | H319 | >= 10 < 25 |
| Skin Corr. 1A | H314 | >= 90 |
| Skin Corr. 1B | H314 | >= 25 < 90 |
| Skin Irrit. 2 | H315 | >= 10 < 25 |

| | |
|-----|--|
| 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**

If you feel unwell, seek medical advice (show the label where possible). Take off contaminated clothing and shoes immediately. Remove affected person from danger area. Adhere to personal protective measures when giving first aid

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

Remove contaminated, soaked clothing immediately and dispose of safely. After contact with skin, wash immediately with plenty of water. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). By continuous complaints consult a physician.

After ingestion

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Summon a doctor immediately. No trials on neutralisation.

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

Chemical burn, Convulsions, Acidosis, bleeding vomiting

SECTION 5: Firefighting measures**5.1. Extinguishing media**

Trade name: Acid aceticum glaciale 99%

Substance number: 201125

Version: 3 / CH

Date revised: 27.03.2019

Replaces Version: 2 / CH

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Suitable extinguishing media

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

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Avoid inhalation of smoke and vapours. Development of toxic gases; Forms explosive mixture with air are possible.

5.3. Advice for firefighters**Special protective equipment for fire-fighting**

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

Other information

Do not discharge into surface waters/groundwater.

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

Do not allow to enter drains or waterways. Suppress gases/vapours/mists with water spray jet.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (eg sand, kieselguhr, universal binder). For tall amounts: Take up mechanically and collect in suitable container for disposal. Clean up affected area.

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

Provide good ventilation of working area (local exhaust ventilation if necessary). Provide good room ventilation even at ground level (vapours are heavier than air). Handle and open container with care. Avoid formation of aerosols.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take action to prevent static discharges. Vapours can form an explosive mixture with air.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed in a well-ventilated place. Do not use aluminium containers. Keep only in original packaging. Provide acid-resistant floor. Use containers made of Polyethylene. Use PVC containers. Use teflon-coated containers and pinings. Use viton-coated containers and pinings.

Hints on storage assembly

Do not store with oxidizing agents. Do not store with alkalies.

Storage classes

| | | |
|-------------------------------------|---|------------------|
| Storage class according to TRGS 510 | 3 | Flammable liquid |
| Storage category (Switzerland) | 3 | Flammable liquid |

Further information on storage conditions

Store in a dry place. Product is hygroscopic. Protect from frost.

Trade name: Acid aceticum glaciale 99%

Substance number: 201125

Version: 3 / CH

Date revised: 27.03.2019

Replaces Version: 2 / CH

Print date: 27.03.19

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Acetic acid

| List | SUVA | | | |
|--|------|-------------------|----|--------|
| Type | MAK | | | |
| Value | 25 | mg/m ³ | 10 | ppm(V) |
| Short term exposure limit | 50 | mg/m ³ | 20 | ppm(V) |
| Pregnancy group: S; Status: 2017; Remarks: SSc; Auge, OAWKT HU & LungeKT HU; NIOSH, OSHA | | | | |

8.2. Exposure controls

General protective and hygiene measures

Keep away from food-stuffs, beverages and feed-stocks. At work do not eat, drink, smoke or take drugs. Remove contaminated, soaked clothing immediately and dispose of safely. Avoid contact with skin and eyes. Provide washing facilities at the place of work. Hold eye wash fountain available.

Respiratory protection

Do not breathe vapours, dust or aerosol. Provide adequate ventilation. necessary; Gas filter E.

Hand protection

Gloves (acid-resistant)
 Appropriate Material Butyl rubber - Butyl
 Material thickness 0.5 mm
 Breakthrough time <= 60 min
 Not suitable: gloves made of thick material
 Not suitable: leather gloves
 Not suitable: gloves of natural latex
 Not suitable: gloves of polychloroprene
 Not suitable: gloves of nitrile rubber - NBR

Eye protection

Tightly fitting safety glasses

Body protection

Acid-resistant protective clothing

SECTION 9: Physical and chemical properties ***

9.1. Information on basic physical and chemical properties

| | | | | |
|--|--------------|-----|-----|----|
| Form | Liquid | | | |
| Colour | colourless | | | |
| Odour | pungent | | | |
| pH value | | | | |
| Value | 1.3 | to | 1.8 | |
| Temperature | 20 | °C | | |
| Melting point | | | | |
| Value | 15 | to | 16 | °C |
| Initial boiling point and boiling range | | | | |
| Value | 118 | | | °C |
| Pressure | 1013 | hPa | | |
| Flash point | | | | |
| Value | 39 | | | °C |
| Method | EN ISO 13736 | | | |

Trade name: Acid aceticum glaciale 99%

Substance number: 201125

Version: 3 / CH

Date revised: 27.03.2019

Replaces Version: 2 / CH

Print date: 27.03.19

Upper/lower flammability or explosive limits

| | | |
|-----------------------|----|------|
| Lower explosion limit | 4 | %(V) |
| Upper explosion limit | 17 | %(V) |

Vapour pressure

| | | |
|-------------|----|-----|
| Value | 16 | hPa |
| Temperature | 20 | °C |

Vapour density

| | |
|-------------|-------|
| Value | 2.07 |
| Temperature | 20 °C |

Density

| | | |
|-------------|-------|-------------------|
| Value | 1.053 | g/cm ³ |
| Temperature | 20 | °C |

Solubility in water

| | |
|---------|---------------------|
| Remarks | Completely miscible |
|---------|---------------------|

Ignition temperature

| | | |
|-------|-----|----|
| Value | 485 | °C |
|-------|-----|----|

Viscosity**dynamic**

| | | |
|-------------|------|-------|
| Value | 1.22 | mPa.s |
| Temperature | 20 | °C |

9.2. Other information**Other information**

The product is not dangerous for explosions. Forms explosive mixture with air are possible.

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

Reactions with oxidising agents. Alkalis, Reactions with damp air.

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

No decomposition if stored and applied as directed. Vapours can form an explosive mixture with air.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat. Keep away from sources of heat and ignition. Protect from light and atmospheric moisture.

10.5. Incompatible materials

Violent reactions with concentrated alkalis and oxidising agents. Reactions with metals, with evolution of hydrogen.

10.6. Hazardous decomposition products

Flammable gases/vapours, Acetic acid

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

| | |
|---------|-----|
| Species | rat |
|---------|-----|

Trade name: Acid aceticum glaciale 99%

Substance number: 201125

Version: 3 / CH

Date revised: 27.03.2019

Replaces Version: 2 / CH

Print date: 27.03.19

LD50 3310 mg/kg

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

| | | | |
|---------|---------------|--|-------|
| Species | rabbit | | |
| LD50 | 1112 | | mg/kg |
| Source | Sigma/Aldrich | | |

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

| | | | |
|----------------------|------|---|------|
| Species | rat | | |
| LC50 | 11.4 | | mg/l |
| Duration of exposure | 4 | h | |

Acetic acid

| | | | |
|----------------------|---------------|---|--------|
| Species | mouse | | |
| LC50 | 5620 | | ppm(V) |
| Duration of exposure | 1 | h | |
| Source | Sigma/Aldrich | | |

Acetic acid

| | | | |
|----------------------|------|---|------|
| LC50 | > 40 | | mg/l |
| Duration of exposure | 4 | h | |

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

| | |
|------------|--------------------|
| Species | rabbit |
| evaluation | strongly corrosive |

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

| | |
|------------|--------------------|
| Species | rabbit |
| evaluation | strongly corrosive |

Sensitization (Components)**Acetic acid**

| | |
|---------|--------------------|
| Remarks | No data available. |
|---------|--------------------|

Subacute, subchronic, chronic toxicity (Components)**Acetic acid**

| | |
|---------|--------------------|
| Remarks | No data available. |
|---------|--------------------|

Mutagenicity (Components)**Acetic acid**

| | |
|---------|--------------------|
| Remarks | No data available. |
|---------|--------------------|

Experience in practice

Kidney damage is possible. After Swallowing: burns in mouth, throat, oesophagus and gastrointestinal tract. Risk of perforation in the oesophagus and stomach.

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

| | | | |
|----------------------|-------------------------------------|---|------|
| Species | rainbow trout (Oncorhynchus mykiss) | | |
| LC50 | > 300.8 | | mg/l |
| Duration of exposure | 96 | h | |
| Method | OECD 203 | | |

Trade name: Acid aceticum glaciale 99%

Substance number: 201125

Version: 3 / CH

Date revised: 27.03.2019

Replaces Version: 2 / CH

Print date: 27.03.19

Daphnia toxicity (Components)**Acetic acid**

| | | |
|----------------------|------------------------------|------|
| Species | Daphnia magna | |
| EC50 | 47 | mg/l |
| Duration of exposure | 24 | h |
| Source | Merck KGaA Safety Data Sheet | |

Acetic acid

| | | |
|----------------------|---------------|------|
| Species | Daphnia magna | |
| EC50 | > 300.82 | mg/l |
| Duration of exposure | 48 | h |
| Method | OECD 202 | |
| Source | Sigma/Aldrich | |

Algae toxicity (Components)**Acetic acid**

| | | |
|----------------------|-------------------------|------|
| Species | Scenedesmus quadricauda | |
| IC5 | 4000 | mg/l |
| Duration of exposure | 16 | h |

Bacteria toxicity (Components)**Acetic acid**

| | | |
|----------------------|--------------------|------|
| Species | Pseudomonas putida | |
| EC5 | 2850 | mg/l |
| Duration of exposure | 16 | h |

Acetic acid

| | | |
|----------------------|----------------------------|------|
| Species | Photobacterium phosphoreum | |
| EC50 | 11 | mg/l |
| Duration of exposure | 15 | min |

12.2. Persistence and degradability**Biodegradability (Components)****Acetic acid**

| | | |
|-----------------------------|-----------------------|---|
| Value | 99 | % |
| Duration of test evaluation | 30 | d |
| | Readily biodegradable | |

Acetic acid

| | | |
|------------------|---------------------------------|---|
| Value | 95 | % |
| Duration of test | 5 | d |
| Method | OECD 302B/ISO 9888/EEC 88/302,C | |

Biochemical oxygen demand (BOD5) (Components)**Acetic acid**

| | | |
|------------------|---------------|------|
| Value | 880 | mg/g |
| Duration of test | 5 | d |
| Source | Sigma/Aldrich | |

12.3. Bioaccumulative potential**Octanol/water partition coefficient (log Pow) (Components)****Acetic acid**

| | | |
|-------------|---------------|----|
| log Pow | -0.17 | |
| Temperature | 25 | °C |
| Source | Sigma/Aldrich | |

12.5. Results of PBT and vPvB assessment

Trade name: Acid aceticum glaciale 99%

Substance number: 201125

Version: 3 / CH

Date revised: 27.03.2019

Replaces Version: 2 / CH

Print date: 27.03.19

Evaluation of persistence and bioaccumulation potential (Components)

Acetic acid

Empirically not to be expected.

Acetic acid

The Substance doesn't meets PBT/vPvB-criterions

12.6. Other adverse effects

General information / ecology

Harmful to aquatic organisms.

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.

In accordance with regulations for special waste, must be taken, to an authorised special waste incineration plant.

Disposal recommendations for packaging

Dispose of as unused product.

SECTION 14: Transport information

| | Land transport ADR/RID | Marine transport IMDG/GGVSee | Air transport ICAO/IATA |
|----------------------------------|---|--|---|
| Tunnel restriction code | D/E | | |
| 14.1. UN number | 2789 | 2789 | 2789 |
| 14.2. UN proper shipping name | ACETIC ACID, GLACIAL | ACETIC ACID, GLACIAL | ACETIC ACID, GLACIAL |
| 14.3. Transport hazard class(es) | 8 | 8 | 8 |
| Subsidiary risk | 3 | 3 | 3 |
| 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 aceticum glaciale 99%

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Water Hazard Class (Germany) ***

Water Hazard Class (Germany) WGK 1

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

SECTION 16: Other information**Hazard statements listed in Chapter 3**H226 Flammable liquid and vapour.
H314 Causes severe skin burns and eye damage.**CLP categories listed in Chapter 3**Flam. Liq. 3 Flammable liquid, Category 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.