

Trade name: Acid aceticum 80%

Substance number: 201000

Version: 6 / CH

Date revised: 12.02.2024

Replaces Version: 5 / CH

Print date: 12.02.24

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

### **1.1. Product identifier**

Acid aceticum 80%

Item No. 20100000

#### **Registration no.**

EC No.: 200-580-7

Registration no. 01-2119475328-30-XXXX

CAS No. 64-19-7

### **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)

Flam. Liq. 3 H226

Skin Corr. 1B 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.

Trade name: Acid aceticum 80%

Substance number: 201000

Version: 6 / CH

Date revised: 12.02.2024

Replaces Version: 5 / CH

Print date: 12.02.24

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.  
 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 ... %

**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 \*\*\*****acetic acid ... %**

CAS No.	64-19-7
EINECS no.	200-580-7
Registration no.	01-2119475328-30-XXXX
Concentration	>= 55 < 89 %
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 %

ATE dermal 1'112 mg/kg

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

**After inhalation**

Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration. Heat. In the event of symptoms take medical treatment. If the patient is likely to become unconscious, place and transport in stable sideways position. Summon a doctor immediately.

**After skin contact**

After contact with skin, wash immediately with polyethylene glycol, followed by 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**

Trade name: Acid aceticum 80%

Substance number: 201000

Version: 6 / CH

Date revised: 12.02.2024

Replaces Version: 5 / CH

Print date: 12.02.24

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.

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

Irritation of mucosa, Chemical burn, Convulsions, Acidosis, Vomiting

#### 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

recommended: alcohol resistant foam, CO<sub>2</sub>-blanket, powders, water spray/mist

##### Non suitable extinguishing media

Full water jet

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

Carbon monoxide (CO); Can build mixtures of gas and air which are capable of explosion.  
Development of toxic gases

#### 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.

### **SECTION 6: Accidental release measures**

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

Wear protective equipment. Keep away unprotected persons. 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.

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

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

#### 6.4. Reference to other sections

Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

##### Advice on safe handling

Keep container tightly closed. Provide good room ventilation even at ground level (vapours are heavier than air). Avoid contact with skin and eyes. Avoid inhalation of vapour and spray mist. Avoid formation of aerosols. Wear respiratory protection when spraying.

##### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Vapours can form an explosive mixture with air. Take

Trade name: Acid aceticum 80%

Substance number: 201000

Version: 6 / CH

Date revised: 12.02.2024

Replaces Version: 5 / CH

Print date: 12.02.24

action to prevent static discharges. Use explosion-proof equipment/fittings and non-sparking tools.

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

### Recommended storage temperature

Value > 15 °C

### Requirements for storage rooms and vessels

Provide acid-resistant floor. Use containers made of Polyethylene. Use PVC containers. Use teflon-coated containers and pinings. Use viton-coated containers and pinings. Keep only in original packaging.

### Hints on storage assembly

Do not store together with: Oxidizing substances, Spontaneously flammable substances

### Storage classes

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

### Further information on storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

## SECTION 8: Exposure controls/personal protection \*\*\*

### 8.1. Control parameters

#### Exposure limit values \*\*\*

##### acetic acid ... %

List	SUVA			
Type	MAK			
Value	25	mg/m <sup>3</sup>	10	ppm(V)
Short term exposure limit	50	mg/m <sup>3</sup>	20	ppm(V)
Pregnancy group: S; Remarks: SSc; OAW Auge; NIOSH OSHA				

#### Derived No/Minimal Effect Levels (DNEL/DMEL)

##### acetic acid ... %

Type of value	Derived No Effect Level (DNEL)			
Reference group	Worker			
Duration of exposure	Long term			
Route of exposure	inhalative			
Mode of action	Local effects			
Concentration	25			mg/m <sup>3</sup>

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	25			mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)			
Reference group	General Population			
Duration of exposure	Long term			
Route of exposure	inhalative			
Mode of action	Local effects			
Concentration	25			mg/m <sup>3</sup>

#### Predicted No Effect Concentration (PNEC)

##### acetic acid ... %

Type	Soil
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Trade name: Acid aceticum 80%

Substance number: 201000

Version: 6 / CH

Date revised: 12.02.2024

Replaces Version: 5 / CH

Print date: 12.02.24

Concentration	0.478	mg/kg
Type	Saltwater	
Concentration	0.3058	mg/l
Type	Freshwater	
Concentration	3.058	mg/l
Type	Marine sediment	
Concentration	1.136	mg/kg
Type	Sediment	
Concentration	11.36	mg/kg
Type	Sewage treatment plant (STP)	
Concentration	85	mg/l
Conditions	Intermittend	
Concentration	30.58	mg/l

## 8.2. Exposure controls

### General protective and hygiene measures

Keep away from food-stuffs, beverages and feed-stocks. Wash hands before breaks and after work. Avoid contact with skin and eyes. Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. At work do not eat, drink, smoke or take drugs.

### Respiratory protection

Short term: filter apparatus; Respiratory protection according to EN141; Gas filter A. Gas filter class E. At intensive and longer exposition use self-contained breathing apparatus.

### 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.

Hand protection must comply with EN 374.

Appropriate Material	Natural Latex		
Material thickness	0.5	mm	
Breakthrough time	>= 8	h	
Appropriate Material	Polychloroprene		
Material thickness	0.5	mm	
Breakthrough time	>= 8	h	
Appropriate Material	Butyl rubber - Butyl		
Material thickness	0.5	mm	
Breakthrough time	>= 8	h	
Appropriate Material	Fluoro carbon rubber - FKM		
Material thickness	0.4	mm	
Breakthrough time	>= 8	h	
Appropriate Material	PVC		
Material thickness	0.5	mm	
Breakthrough time	>= 8	h	

### Eye protection

Tightly fitting safety glasses; Face shield

### Body protection

Impermeable protective clothing; apron

### Environmental exposure controls

Trade name: Acid aceticum 80%

Substance number: 201000

Version: 6 / CH

Date revised: 12.02.2024

Replaces Version: 5 / CH

Print date: 12.02.24

Do not allow to enter drains or water courses.

## **SECTION 9: Physical and chemical properties**

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

<b>Physical state</b>	liquid
<b>Colour</b>	colourless
<b>Odour</b>	of acetic acid
<b>Melting point</b>	
Value	< 0 °C
<b>Boiling point or initial boiling point and boiling range</b>	
Value	104 °C
Method	DIN 51761
<b>Flammability</b>	
Not self inflammable	
<b>Upper and lower explosive limits</b>	
Lower explosion limit	4.0 %(V)
Upper explosion limit	17.0 %(V)
Remarks	Information refers to the main component.
<b>Flash point</b>	
Value	40.1 to 59.9 °C
<b>Ignition temperature</b>	
Value	463 °C
<b>pH value</b>	
Value	1.5 to 2
Concentration/H <sub>2</sub> O	100 %
<b>Partition coefficient n-octanol/water (log value)</b>	
log Pow	-0.17
Temperature	25 °C
<b>Vapour pressure</b>	
Value	2.3 kPa
Temperature	20 °C
Method	DIN 51754
<b>Density and/or relative density</b>	
Value	1.06 g/cm <sup>3</sup>
Temperature	20 °C

### **9.2. Other information**

<b>Solubility in water</b>	
Remarks	Completely miscible
<b>Solvent content</b>	
Value	80 %

#### **Other information**

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

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

No decomposition if stored and applied as directed.

Trade name: Acid aceticum 80%

Substance number: 201000

Version: 6 / CH

Date revised: 12.02.2024

Replaces Version: 5 / CH

Print date: 12.02.24

**10.2. Chemical stability**

No decomposition if stored and applied as directed.

**10.3. Possibility of hazardous reactions**

Metals. Possible incompatibility with materials listed under section 10.5.

**10.4. Conditions to avoid**

Keep away from sources of heat and ignition. Sparks. Flames. Sensitive to moisture.

**10.5. Incompatible materials**

Bases, Oxidising agents, Reactions with alkalis. Reactions with alcohols. Reactions with light metals. Reaction with nitric acid. Corrosive to metals.

**10.6. Hazardous decomposition products**

Irritant gases/vapours, Flammable gases/vapours

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

Species	rat		
LD50		3310	mg/kg

**Acute dermal toxicity**

ATE		1'308.23	mg/kg
		53	

Method calculated value (Regulation (EC) No. 1272/2008)

**Acute dermal toxicity (Components)****acetic acid ... %**

Species	rabbit		
LD50		1112	mg/kg

**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	

**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		irritant - risk of serious damage to eyes	

Trade name: Acid aceticum 80%

Substance number: 201000

Version: 6 / CH

Date revised: 12.02.2024

Replaces Version: 5 / CH

Print date: 12.02.24

**Sensitization (Components)****acetic acid ... %**

Remarks No data available.

**Subacute, subchronic, chronic toxicity (Components)****acetic acid ... %**

Remarks No data available.

**Mutagenicity (Components)****acetic acid ... %**

evaluation No experimental indications on genotoxicity in vivo found.

Method OECD 474

**acetic acid ... %**

Species mammal, species unspecified

evaluation No experimental information on genotoxicity in vitro available.

Method OECD 476

**Carcinogenicity (Components)****acetic acid ... %**

Remarks negative on animals

**Specific Target Organ Toxicity (STOT) (Components)****acetic acid ... %**

Remarks 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**

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 \*\*\***

Species	Bluegill ( <i>Lepomis macrochirus</i> )	
LC50	75	mg/l
Duration of exposure	96	h

**Fish toxicity (Components)****acetic acid ... %**

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

**Daphnia toxicity (Components)****acetic acid ... %**

Species	Daphnia magna	
EC50	47	mg/l
Duration of exposure	24	h

**acetic acid ... %**

Species	Daphnia magna
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Trade name: Acid aceticum 80%

Substance number: 201000

Version: 6 / CH

Date revised: 12.02.2024

Replaces Version: 5 / CH

Print date: 12.02.24

EC50	>	300.82	mg/l
Duration of exposure		48 h	
Method		OECD 201	

**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	

**12.3. Bioaccumulative potential****Partition coefficient n-octanol/water (log value)**

log Pow	-0.17
Temperature	25 °C

**Octanol/water partition coefficient (log Pow) (Components)****acetic acid ... %**

log Pow	-0.17
Temperature	25 °C

**12.4. Mobility in soil****Mobility in soil (Components)****acetic acid ... %**

Mobile in soils

**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.

Trade name: Acid aceticum 80%

Substance number: 201000

Version: 6 / CH

Date revised: 12.02.2024

Replaces Version: 5 / CH

Print date: 12.02.24

## 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.

## 12.7. Other adverse effects

### General information

No data available

### General information / ecology

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Harmful to aquatic organisms. The product causes changes in the pH value in the test system. The result relates to the unneutralized sample.

## 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

Completely emptied packagings can be given for recycling.

## 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 SOLUTION	ACETIC ACID SOLUTION	ACETIC ACID SOLUTION
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		
14.5. Environmental hazards		no	

Trade name: Acid aceticum 80%

Substance number: 201000

Version: 6 / CH

Date revised: 12.02.2024

Replaces Version: 5 / CH

Print date: 12.02.24

## **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 (Germany)	WGK 1
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Remarks	Derivation of WGK according to Annex 1 No. 5.2 AwSV
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### **15.2. Chemical safety assessment**

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

## **SECTION 16: Other information**

### **Hazard statements listed in Chapter 3**

H226	Flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

### **CLP categories listed in Chapter 3**

Eye Dam. 1	Serious eye damage, Category 1
Flam. Liq. 3	Flammable liquid, Category 3
Skin Corr. 1A	Skin corrosion, Category 1A
Skin Corr. 1B	Skin corrosion, Category 1B

### **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.