

Trade name: Acid aceticum 80%

Substance number: 201000

Version: 5 / CH

Date revised: 23.04.2019

Replaces Version: 4 / CH

Print date: 23.04.19

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)

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 ***

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

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P310 lenses, if present and easy to do. Continue rinsing.
 P303+P361+P353 Immediately call a POISON CENTER or doctor.
 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 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 ≥ 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 $\geq 10 < 25$
 Skin Corr. 1A H314 ≥ 90
 Skin Corr. 1B H314 $\geq 25 < 90$
 Skin Irrit. 2 H315 $\geq 10 < 25$

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**

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.

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.). Take medical treatment. Shield unaffected eye.

After ingestion

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

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

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

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

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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

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

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

Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

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

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.

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.

Hints on storage assembly

Do not store together with: Alkalies, Oxidising agents

Storage classes

Storage class according to TRGS 510	3	Flammable liquid
Storage category (Switzerland)	8	Caustic and corrosive substances

Further information on storage conditions

Keep container tightly closed. Keep container in a well-ventilated place. Protect from heat and direct sunlight. Protect from frost.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

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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. 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

Breathing apparatus in the event of aerosol or mist formation. Gas filter class E.

Hand protection

Gloves (acid-resistant)			
Appropriate Material	butyl		
Material thickness	0.5	mm	
Breakthrough time	>= 8	h	

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	colourless		
Odour	pungent		
pH value			
Value	2.5		
Concentration/H ₂ O	50	g/l	
Temperature	20	°C	
Melting point			
Value	< 0	°C	
Initial boiling point and boiling range			
Value	104	°C	
Method	DIN 51761		
Flash point			
Value	61	°C	
Method	DIN 51755		
Flammability (solid, gas)			
Not self inflammable			
Upper/lower flammability or explosive limits			
Lower explosion limit	4.0	%(V)	
Upper explosion limit	17.0	%(V)	
Vapour pressure			

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Value	2.3		kPa
Temperature	20	°C	
Method	DIN 51754		

Density

Value	1.070		g/cm ³
Temperature	20	°C	
Method	DIN 51757		

Solubility in water

Remarks	Completely miscible
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Partition coefficient: n-octanol/water

log Pow	< 1
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Ignition temperature

Value	500.0	°C
Method	DIN 51794	

9.2. Other information**Solvent content**

Value	80	%
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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.

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

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 alkalies. Reactions with alcohols. Reactions with light metals.
Reaction with nitric acid.

10.6. Hazardous decomposition products

Irritant gases/vapours, Flammable gases/vapours

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

Species	rat		
LD50	3310		mg/kg

Acute dermal toxicity

ATE	1'356.09	mg/kg
	76	

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

Species	rabbit
Remarks	Corrosive action on the skin and mucous membrane.

Serious eye damage/irritation

Remarks	strongly corrosive
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Sensitization

Remarks	No sensitisation effect known.
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Experience in practice

After Swallowing: burns in mouth, throat, oesophagus and gastrointetinal tract. Risk of perforation in the oesophagus and stomach.

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity**

Species	Fathead minnow (Pimephales promelas)		
LC50	88		mg/l
Duration of exposure	96	h	
Species	Bluegill (Lepomis macrochirus)		
LC50	75		mg/l
Duration of exposure	96	h	

Fish toxicity (Components)**Acetic acid**

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

Daphnia toxicity

Species	Daphnia magna		
LC50	95		mg/l
Duration of exposure	24	h	

Daphnia toxicity (Components)

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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

Species	Pseudomonas putida	
EC10	1000	mg/l
Duration of exposure	0.5	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**

Value	99	%
Duration of test evaluation	30	d
	Readily biodegradable	

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

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General information

There is no data available on the product apart from the information given in this subsection.

Partition coefficient: n-octanol/water

log Pow < 1

Octanol/water partition coefficient (log Pow) (Components)**Acetic acid**

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

12.4. Mobility in soil**General information**

No data available

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

No data available

12.6. 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

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	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	

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

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.