

Trade name: Acid aceticum 98-100% glac

Substance number: 201250

Version: 3 / CH

Date revised: 17.12.2018

Replaces Version: 2 / CH

Print date: 02.10.19

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

### **1.1. Product identifier**

Acid aceticum 98-100% glac

Item No. 20125000

### **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

Flam. Liq. 3 H226

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.

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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.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
 P310 Immediately call a POISON CENTER or doctor.

**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**

Remove affected person from danger area, lay him down. Take off contaminated clothing and shoes immediately. Adhere to personal protective measures when giving first aid

**After inhalation**

Ensure supply of fresh air. Heat. After inhalation of decomposition products: Inhale corticosteroid-dosing-aerosol immediately. In the event of symptoms take medical treatment.

**After skin contact**

Wash skin thoroughly with water (15 min.). Summon a doctor immediately. Causes severe burns.

**After eye contact**

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

**After ingestion**

Summon a doctor immediately. Do not induce vomiting. If swallowed, rinse mouth with water (only if the person is conscious). Let plenty of water be drunk in small gulps.

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

Chemical burn, Convulsions, Acidosis, bleeding vomiting

**SECTION 5: Firefighting measures**

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## 5.1. Extinguishing media

### Suitable extinguishing media

Carbon dioxide, Dry powder, Water spray jet, 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

In the event of a fire, toxic and combustible gases can be formed. 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. Advise water authority if spillage has entered water course or drainage system.

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

Ensure adequate ventilation. Take up with absorbent material (eg sand, kieselguhr). Send in suitable containers for recovery or disposal.

### 6.4. Reference to other sections

Information regarding Safe handling, see Section 7. 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

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

Provide acid-resistant floor. 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.

#### Further information on storage conditions

Keep container tightly closed. Keep container in a well-ventilated place. Store in a dry place. Product is hygroscopic. Protect from frost.

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## **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; Status: 2017; Remarks: SSc; Auge, OAWKT HU & LungeKT HU; NIOSH, OSHA				

### **8.2. Exposure controls**

#### **Exposure controls**

See Section 7. No measures exceeding the ones mentioned necessary.

#### **General protective and hygiene measures**

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

#### **Respiratory protection**

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

#### **Hand protection**

Gloves (acid-resistant)  
 Appropriate Material Butyl rubber - Butyl  
 Material thickness 0.5 mm  
 Breakthrough time >= 8 h  
 Not suitable  
 Gloves of thick material  
 Leather gloves  
 Not suitable: gloves of natural latex  
 Not suitable: gloves of polychloroprene  
 Not suitable: gloves of nitrile rubber - NBR  
 Fluoro carbon rubber - FKM

#### **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**

<b>Form</b>	liquid
<b>Colour</b>	colourless
<b>Odour</b>	pungent
<b>pH value</b>	
Value	2.5
Concentration/H <sub>2</sub> O	50 g/l
Temperature	20 °C

#### **Melting point**

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Value	16		°C
<b>Initial boiling point and boiling range</b>			
Value	118		°C
<b>Flash point</b>			
Value	40		°C
<b>Upper/lower flammability or explosive limits</b>			
Lower explosion limit	4	to	17 % (V)
<b>Vapour pressure</b>			
Value	16		hPa
Temperature	20		°C
<b>Density</b>			
Value	1.05		g/cm <sup>3</sup>
Temperature	20		°C
<b>Solubility in water</b>			
Remarks	Completely miscible		
<b>Solubility(ies)</b>			
Remarks	Completely miscible		
<b>Ignition temperature</b>			
Value	485		°C
<b>Viscosity</b>			
<b>dynamic</b>			
Value	1.14		mPa.s
Temperature	25		°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**

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**

Oxidising agents

**10.4. Conditions to avoid**

Heat. Flames. Sparks

**10.5. Incompatible materials**

Violent reactions with concentrated alkalis and oxidising agents. Reactions with light metals. Reactions with alcohols. Reaction with nitric acid.

**10.6. Hazardous decomposition products**

Acetic acid, Flammable gases/vapours, In the event of fire the following can be released: Carbon monoxide and carbon dioxide

**SECTION 11: Toxicological information**

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**11.1. Information on toxicological effects****Acute oral toxicity (Components)****Acetic acid**

Species	rat		
LD50		3310	mg/kg

**Acute dermal toxicity**

ATE		1'112	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)		

**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**

Remarks	Strong corrosive action on the skin and mucous membrane.
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**Serious eye damage/irritation**

Remarks	Strong corrosive action on the skin and mucous membrane.
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**Sensitization**

Remarks	May cause sensitization by skin contact.
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**Subacute, subchronic, chronic toxicity**

Remarks	Repeated absorption/exposure may cause disorder of the kidneys.
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**Experience in practice**

Perforation of gullet and stomach. May cause sensitization by inhalation and skin contact. Ingestion of aqueous solution causes burns in: Mouth. Throat

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

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

Species	Fathead minnow (Pimephales promelas)		
		88	mg/l

**Fish toxicity (Components)**

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**Acetic acid**

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

**Daphnia toxicity**

Species	Daphnia magna		
LC50	47		mg/l
Duration of exposure	24	h	

**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**

Value	99		%
Duration of test	30	d	
Remarks	The product is readily biodegradable according to OECD criteria.		

**Biodegradability (Components)****Acetic acid**

Value	99		%
Duration of test	30	d	
evaluation	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)**

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**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

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

Harmful to aquatic organisms. The product causes changes in the pH value in the test system. The result relates to the unneutralized sample. Product is slightly hazardous to water. Do not allow undiluted product or large quantities of 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**

Dispose of as unused product.

**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, 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

#### Water Hazard Class (Germany)

Water Hazard Class (Germany) WGK 1

Remarks Classification according to Annex 4 VwVwS

## 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.