

Trade name: Acid succinum

Substance number: 061720

Version: 2 / CH

Date revised: 23.10.2019

Replaces Version: 1 / CH

Print date: 23.10.19

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

1.1. Product identifier

Acid succinum

Item No. 06172000

Registration no.

EC No.: 203-740-4

Registration no. 01-2119896114-34-0004

CAS No. 110-15-6

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/preparation

Manufacture of pharmaceutical products

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)

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

H318 Causes serious eye damage.

Precautionary statements ***

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

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

contains *** Succinic acid

SECTION 3: Composition/information on ingredients *****3.1. Substances****Hazardous ingredients *******Succinic acid**

CAS No.	110-15-6	
EINECS no.	203-740-4	
Registration no.	01-2119896114-34-0004	
Concentration	>= 50	%
Classification (Regulation (EC) No. 1272/2008)	Eye Dam. 1	H318

SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Remove affected persons from dangerous area by observing suitable respiratory protection measures.
 Irregular breathing/no breathing: artificial respiration. Take medical treatment.

After skin contact

Wash skin thoroughly with water (15 min.). Remove contaminated, soaked clothing immediately and dispose of safely. Take medical treatment.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Remove contact lenses. Take medical treatment.

After ingestion

Consult a physician if necessary.

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

Causes very strong irritations of the eyes, skin and mucous membranes.

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, CO₂, powders, water spray/mist

Non suitable extinguishing media

water jet.

5.2. Special hazards arising from the substance or mixture

Forms explosive mixture with air are possible. Carbon dioxide (CO₂); Carbon monoxide (CO); If a fire

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breaks out nearby, pressure build-up and danger of bursting are possible.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Wear protective clothing. Use self-contained breathing apparatus. Do not inhale explosion and/or combustion gases.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Refer to protective measures listed in Sections 7 and 8. Wear protective equipment

6.2. Environmental precautions

Retain and dispose of contaminated wash water. Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Avoid raising dust. When picked up, treat material as prescribed under Section 13 "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

Comply with the health and safety at work laws. Product should be handled only by trained personnel. Keep container tightly closed. Avoid inhaling dusts/ billows/ steams. Keep away sources of ignition. Smoking, eating and drinking should be prohibited in application area. Wear protective equipment. Take action to prevent static discharges.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep tightly closed in a dry and cool place. Storage rooms must be properly ventilated. Store in accordance with national regulation

Hints on storage assembly

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

Storage classes

Storage class according to TRGS 510	13	Non- combustible solids
Storage category (Switzerland)	8	Caustic and corrosive substances

7.3. Specific end use(s)

Reagent for analyses; Cleaning agent; Chemical

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Other information

Contains no substances with occupational exposure limit values.

Derived No/Minimal Effect Levels (DNEL/DMEL)

Succinic acid

Type of value	Derived No Effect Level (DNEL)
Reference group	Worker

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Duration of exposure Short term
Route of exposure dermal
Mode of action Systemic effects
Concentration 67 mg/kg
Source Safety Data Sheet Supplier

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 10 mg/m³
Source Safety Data Sheet Supplier

Type of value Derived No Effect Level (DNEL)
Reference group Consumer
Duration of exposure Acute
Route of exposure oral
Mode of action Systemic effects
Concentration 67 mg/kg
Source Safety Data Sheet Supplier

Type of value Derived No Effect Level (DNEL)
Reference group Consumer
Duration of exposure Long term
Route of exposure oral
Mode of action Systemic effects
Concentration 43 mg/kg
Source Safety Data Sheet Supplier

Type of value Derived No Effect Level (DNEL)
Reference group Consumer
Duration of exposure Acute
Route of exposure dermal
Mode of action Systemic effects
Concentration 67 mg/kg
Source Safety Data Sheet Supplier

Type of value Derived No Effect Level (DNEL)
Reference group Consumer
Duration of exposure Long term
Route of exposure dermal
Mode of action Systemic effects
Concentration 43 mg/kg
Source Safety Data Sheet Supplier

Type of value Derived No Effect Level (DNEL)
Reference group Consumer
Duration of exposure Acute
Route of exposure inhalative
Mode of action Local effects
Concentration 10 mg/m³
Source Safety Data Sheet Supplier

Type of value Derived No Effect Level (DNEL)
Reference group Consumer
Duration of exposure Acute

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Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	10	mg/m ³
Source	Safety Data Sheet Supplier	
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	10	mg/m ³
Source	Safety Data Sheet Supplier	
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	10	mg/m ³
Source	Safety Data Sheet Supplier	

8.2. Exposure controls

General protective and hygiene measures

Work only in fume cupboards.

Respiratory protection

Provide adequate ventilation. Use breathing apparatus in dust-laden atmosphere. Particle filter P2

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.

Appropriate Material 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

Face shield

Body protection

Protective clothing

Environmental exposure controls

Do not allow to enter drains or water courses.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	solid
Colour	white
Odour	odourless

pH value

Value	2.7
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Initial boiling point and boiling range

Value	185	to	187	°C
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Flash point

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Remarks Not applicable

Density

Value	1.564		
Temperature	15	°C	
Value	1.6		g/cm ³
Temperature	25	°C	

Solubility in water

Value	83		g/l
Temperature	25	°C	

Partition coefficient: n-octanol/water

pOW	0.257
log Pow	-0.59

Viscosity

Remarks No data available

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

No decomposition if stored and applied as directed.

10.4. Conditions to avoid

Keep away from sources of heat and ignition. Avoid dust formation. Possible incompatibility with materials listed under section 10.5.

10.5. Incompatible materials

Oxidising agents, Alkalies

10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide

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

Species	rat		
LD50		6740	mg/kg

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

Species	rat		
LD50		6740	mg/kg

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

Species	rat		
LC50		1284	mg/m ³
Duration of exposure	4	h	

Skin corrosion/irritation

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Remarks No effect of irritation known.

Serious eye damage/irritation

Remarks strongly corrosive

Sensitization

Remarks No sensitisation effect known.

Sensitization (Components)**Succinic acid**

evaluation non-sensitizing

Mutagenicity

Method Ames test

Remarks None

Carcinogenicity

Remarks Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity (STOT)

Remarks Not applicable

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

Species	zebra fish (Brachydanio rerio)	
LC50	> 100	mg/l
Duration of exposure	96	h

Fish toxicity (Components)**Succinic acid**

Species	zebra fish (Brachydanio rerio)	
LC50	> 100	mg/l
Method	ISO 7346/2 (semistatic)	

Daphnia toxicity

Species	Daphnia magna	
EC50	374.2	mg/l
Duration of exposure	48	h
Source	static	

Species	Daphnia magna	
EC50	> 100	mg/l
Duration of exposure	48	h
Source	semi static	

Daphnia toxicity (Components)**Succinic acid**

Species	Daphnia magna	
EC50	374.2	mg/l
Duration of exposure	48	h
Source	static	

Succinic acid

Species	Daphnia magna	
EC50	> 100	mg/l
Duration of exposure	48	h
Source	semi-static	

Algae toxicity

Species	Pseudokirchneriella subcapitata
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EC50 > 100 mg/l

Algae toxicity (Components)**Succinic acid**

Species Pseudokirchneriella subcapitata
 EC50 > 100 mg/l
 Duration of exposure 72 h

12.3. Bioaccumulative potential**Partition coefficient: n-octanol/water**

pOW 0.257
 log Pow -0.59

12.4. Mobility in soil**Mobility in soil**

Slightly mobile in soils

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

Not applicable

12.6. Other adverse effects**General information**

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

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Disposal in compliance with local and national regulations.

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
14.1. UN number	Non-dangerous goods	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.

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 3

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

SECTION 16: Other information

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Hazard statements listed in Chapter 3

H318 Causes serious eye damage.

CLP categories listed in Chapter 3

Eye Dam. 1 Serious eye damage, Category 1

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.