

Trade name: Acid sorbicum

Substance number: 060392

Version: 3 / CH

Date revised: 17.12.2018

Replaces Version: 2 / CH

Print date: 01.10.19

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

1.1. Product identifier

Acid sorbicum

Item No. 06039200

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

Use of the substance/preparation

food additive, Manufacture of cosmetics, 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)

Skin Irrit. 2 H315

Eye Irrit. 2 H319

STOT SE 3 H335

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

Warning

Hazard statements

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H335

May cause respiratory irritation.

Precautionary statements

P261.1

Avoid breathing dust.

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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.
P312 Call a POISON CENTRE or doctor if you feel unwell.
P501.3 Disposal in compliance with local and national regulations.

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

contains hexa-2,4-dienoic acid

SECTION 3: Composition/information on ingredients**Hazardous ingredients****hexa-2,4-dienoic acid**

CAS No.	110-44-1		
EINECS no.	203-768-7		
Registration no.	01-2119950330-49-0000		
Concentration	>= 50		%
Classification (Regulation (EC) No. 1272/2008)			
	Skin Irrit. 2		H315
	Eye Irrit. 2		H319
	STOT SE 3		H335

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Remove contaminated, soaked clothing immediately and dispose of safely.

After inhalation

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

After skin contact

Wash skin thoroughly with water (15 min.). Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical advice immediately.

After ingestion

Do not induce vomiting. Summon a doctor immediately.

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

Irritating to respiratory system.

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**

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

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In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂); Under certain fire conditions the smoke may contain other toxic compounds.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus. Wear protective clothing.

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

Avoid contact with eyes and skin. Exclude sources of ignition and ventilate the area. Do not inhale dust. Keep away unprotected persons.

6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to enter drains or waterways.

6.3. Methods and material for containment and cleaning up

Pick up mechanically. When picked up, treat material as prescribed under Section 13 "Disposal". Ensure adequate ventilation.

6.4. Reference to other sections

Information regarding personal protective measures, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid dust formation. Avoid contact with skin, eyes and clothing. Smoking, eating and drinking should be prohibited in application area.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take action to prevent static discharges. The product is not liable to cause dust explosions.

Classification of fires / temperature class / Ignition group / Dust explosion class

Temperature class	T4
Dust explosion class	Capable of dust explosion

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

No special requirements.

Hints on storage assembly

Not required.

Further information on storage conditions

Keep container tightly closed, cool and dry. Protect from light.

SECTION 8: Exposure controls/personal protection

8.2. Exposure controls

Exposure controls

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

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General protective and hygiene measures

Observe the usual precautions for handling chemicals. Avoid contact with skin and eyes. Do not inhale dust/fumes/aerosols. Wash hands before breaks and after work.

Respiratory protection

Particle filter P2; At intensive and longer exposition use self-contained breathing apparatus.

Hand protection

Protective gloves

Appropriate Material nitrile rubber - NBR

Material thickness \geq 0.5 mm

Breakthrough time $>$ 480 min

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; Tightly fitting safety glasses

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Form	Powder		
Colour	white		
Odour	odourless		
pH value			
Value	3.3		
Concentration/H ₂ O	1.6	g/l	
Temperature	20	°C	
Melting point			
Value	134		°C
Initial boiling point and boiling range			
Value	170		°C
Flash point			
Remarks	Not applicable		
Vapour pressure			
Remarks	Not applicable		
Density			
Value	1.2		g/cm ³
Temperature	20	°C	
Solubility in water			
Value	1.56		g/l
Temperature	20	°C	
Partition coefficient: n-octanol/water			
log Pow	1.32		
Temperature	20	°C	
Ignition temperature			
Value	$>$ 120		°C
Decomposition temperature			
Value	from 170		°C
Heating rate	3	K/min	

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Explosive properties

evaluation Dust

9.2. Other information**Other information**

The product is capable of dust explosions.

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

No decomposition if stored and applied as directed.

10.2. Chemical stability

To avoid thermal decomposition, do not overheat.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

Avoid dust formation.

10.5. Incompatible materials

Oxidising agents, Bases

10.6. Hazardous decomposition products

None known

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity (Components)****hexa-2,4-dienoic acid**

Species	rat		
LD50	>	10000	mg/kg

Acute dermal toxicity (Components)**hexa-2,4-dienoic acid**

Species	rat		
LD50	>	2000	mg/kg

Skin corrosion/irritation (Components)**hexa-2,4-dienoic acid**

Species	rabbit		
evaluation	non-irritant		
Method	EEC 84/449, B.4		

Serious eye damage/irritation (Components)**hexa-2,4-dienoic acid**

Species	rabbit		
evaluation	irritant		
Method	EEC 84/449, B.5		

Sensitization (Components)**hexa-2,4-dienoic acid**

Species	guinea pig		
evaluation	non-sensitizing		
Method	EEC 96/54, B.6		

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Mutagenicity (Components)**hexa-2,4-dienoic acid**

Species	mouse
evaluation	No mutagenicity in the micronucleus test.
Method	OECD 474

hexa-2,4-dienoic acid

evaluation	No experimental information on genotoxicity in vitro available.
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Carcinogenicity (Components)**hexa-2,4-dienoic acid**

Species	rat
evaluation	No negative effects

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity (Components)****hexa-2,4-dienoic acid**

Species	zebra fish (Brachydanio rerio)	
	1250	mg/l
Duration of exposure	96	h
Source	(Reference substance: Potassium sorbate)	

Daphnia toxicity (Components)**hexa-2,4-dienoic acid**

Species	Daphnia magna	
EC50	353	mg/l
Duration of exposure	48	h
Method	OECD 202	

Algae toxicity (Components)**hexa-2,4-dienoic acid**

Species	Scenedesmus subspicatus	
EC50	24.1	mg/l
Duration of exposure	72	h

Bacteria toxicity (Components)**hexa-2,4-dienoic acid**

EC50	> 100	mg/l
Duration of exposure	3	h
Method	OECD 209	

12.2. Persistence and degradability**Biodegradability (Components)****hexa-2,4-dienoic acid**

evaluation	Readily biodegradable
Method	OECD 301 B

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

log Pow	1.32	
Temperature	20	°C

12.6. Other adverse effects

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General information / ecology

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**

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Uncontaminated packaging may be taken for recycling.

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 1
Identification number	1131
Remarks	Classification according to Annex 2 VwVwS

SECTION 16: Other information**Hazard statements listed in Chapter 3**

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

CLP categories listed in Chapter 3

Eye Irrit. 2	Eye irritation, Category 2
Skin Irrit. 2	Skin irritation, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

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.