

Trade name: Acid ascorbicum

Substance number: 160096

Version: 5 / CH

Date revised: 30.06.2025

Replaces Version: 4 / CH

Print date: 30.06.25

SECTION 1: Identification of the substance/mixture and of the company/undertaking *****1.1. Product identifier**

Acid ascorbicum

Item No. 16009600

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/preparation**

Manufacture of pharmaceutical products, food additive

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**

Voluntary product information following the Safety Data Sheet format

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements**Labelling according to regulation (EC) No 1272/2008**

The product does not require a hazard warning label in accordance with Regulation (EC) No 1272/2008.

2.3. Other hazards

The product does not require a hazard warning label in accordance with Directive 67/548/EC

The Substance does not meet PBT-criteria. This substance does not meet the vPvB-criteria. This substance does not have endocrine disrupting properties with respect to humans. This substance does not have endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients**Molecular weight**

Value 176.13 g/mol

Further ingredients**Ascorbic acid**

CAS No. 50-81-7

EINECS no. 200-066-2

Registration no. EXEMPT

Concentration >= 95 %

Advice: [4]

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Note

[4] Voluntary information

Other information

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No special measures necessary.

After inhalation

Remove the casualty into fresh air and keep him calm. In the event of symptoms take medical treatment.

After skin contact

Remove contaminated, soaked clothing immediately and dispose of safely. Wash off immediately with soap and water and rinse well.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Shield unaffected eye.

After ingestion

Rinse out mouth and give plenty of water to drink. Never give anything by mouth to an unconscious person.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water, Foam

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus.

Other information

Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation.

6.2. Environmental precautions

Do not allow to enter drains or waterways. No special measures required.

6.3. Methods and material for containment and cleaning up

Pick up mechanically.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

No special requirements.

Advice on protection against fire and explosion

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Avoid dust formation. The product is capable of dust explosions. Take action to prevent static discharges.

7.2. Conditions for safe storage, including any incompatibilities

Recommended storage temperature

Value < 25 °C

Requirements for storage rooms and vessels

No special requirements.

Hints on storage assembly

Not required.

Storage classes

Storage class according to TRGS 510	13	Non- combustible solids
Storage category (Switzerland)	NG	Other solid hazardous substances without classification/labelling hazardous

Further information on storage conditions

Keep container tightly closed, cool and dry. Protect from atmospheric moisture and water.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Other information

Contains no substances with occupational exposure limit values.

8.2. Exposure controls

Exposure controls

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

General protective and hygiene measures

Observe the usual precautions for handling chemicals.

Respiratory protection

Not necessary. Breathing apparatus in the event of high concentrations. Breathing apparatus in the event of aerosol. Dust mask

Hand protection

Gloves
Appropriate Material nitrile rubber - NBR

Eye protection

Safety glasses

Body protection

Protective clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Crystalline powder

Colour white to yellow

Melting point

Value appr. 190 °C

Boiling point or initial boiling point and boiling range

Remarks not determined

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Flash point

Remarks Not applicable

Decomposition temperatureRemarks To avoid thermal decomposition, do not overheat.
Remarks exothermic**pH value**Value 2.1 to 2.6
Concentration/H₂O 5 g/l
Remarks Aqueous extract**Solubility(ies)**Diethyl ether
Remarks virtually insoluble
Ethanol
Value appr. 20 %**Partition coefficient n-octanol/water (log value)**log Pow -2.15
Temperature 23 °C**Vapour pressure**Value < 0.001 hPa
Temperature 25 °C
Source Literature value**Density and/or relative density**Value 1.65 g/cm³**9.2. Other information****Solubility in water**Value 330 g/l
Temperature 24 °C**Dissociation constant**

Value 4.17 to 11.57

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

Heat. If product is heated above decomposition temperature toxic vapours may be released.

10.5. Incompatible materials

Oxidising agents, Bases

10.6. Hazardous decomposition products

Exothermic decomposition

SECTION 11: Toxicological information

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11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**Acute oral toxicity**

ATE	2'000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute oral toxicity (Components)**Ascorbic acid**

Species	rat	
LD50	11290	mg/kg

Ascorbic acid

Species	rat	
NOAEL	2000	mg/kg
Duration of exposure	2	y

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

	> 5000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

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

Remarks	No data available
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Skin corrosion/irritation

Species	rabbit
Duration of exposure	4 h
Method	OECD 404
Remarks	No effect of irritation known.

Skin corrosion/irritation (Components)**Ascorbic acid**

Species	rabbit
Duration of exposure	4 h
evaluation	non-corrosive
Method	OECD 405

Serious eye damage/irritation

Species	rabbit
Method	OECD 405
Remarks	No effect of irritation known
Species	rabbit
Method	OECD 405
Remarks	Eye contact with the product may lead to irritation.

Serious eye damage/irritation (Components)**Ascorbic acid**

Species	rabbit
evaluation	non-irritant
Method	OECD 405

Sensitization

Remarks	No sensitisation effect known.
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Sensitization (Components)**Ascorbic acid**

Species	guinea pig
evaluation	non-sensitizing

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Subacute, subchronic, chronic toxicity

Chronic toxicity

Route of exposure oral

Species rat

2000

mg/kg

Duration of exposure 2 y

Subacute, subchronic, chronic toxicity (Components)**Ascorbic acid**

Remarks No data available

Mutagenicity

evaluation No experimental indications on genotoxicity in vivo found.

Mutagenicity (Components)**Ascorbic acid**

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

Reproduction toxicity (Components)**Ascorbic acid**

Remarks No data available

Carcinogenicity

Remarks No evidence available on carcinogenicity.

Carcinogenicity (Components)**Ascorbic acid**

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

Specific Target Organ Toxicity (STOT) (Components)**Ascorbic acid**

Remarks Not applicable

11.2 Information on other hazards**Endocrine disrupting properties with respect to humans**

This substance does not have endocrine disrupting properties with respect to humans.

Other information

By appropriate use of the product no health damage is known.

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity**Species rainbow trout (*Oncorhynchus mykiss*)

LC50 1020 mg/l

Duration of exposure 96 h

Method OECD 203

Fish toxicity (Components)**Ascorbic acid**Species rainbow trout (*Oncorhynchus mykiss*)

LC50 1020 mg/l

Duration of exposure 96 h

Method OECD 203

Daphnia toxicity (Components)**Ascorbic acid**

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Remarks No data available.

Algae toxicity (Components)**Ascorbic acid**

Remarks No data available.

Bacteria toxicity (Components)**Ascorbic acid**

Remarks No data available.

12.2. Persistence and degradability**Biodegradability**

Duration of test 15 d
 evaluation biodegradable
 Method OECD 302B

Biodegradability (Components)**Ascorbic acid**

Value 100 %
 Duration of test 15 d
 evaluation Readily biodegradable (according to OECD criteria)
 Method OECD 302B/ISO 9888/EEC 88/302,C

Ascorbic acid

Value 97 %
 Duration of test 5 d
 evaluation Readily biodegradable (according to OECD criteria)
 Method OECD 302B/ISO 9888/EEC 88/302,C

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

log Pow -2.15
 Temperature 23 °C

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

log Pow -2.0
 Source Safety Data Sheet Supplier

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

The Substance does not meet PBT-criteria.
 This substance does not meet the vPvB-criteria.

12.6 Endocrine disrupting properties**Endocrine disrupting properties with respect to the environment**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

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

In general not water hazardous.

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

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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	The product does not constitute a hazardous substance in land transport.	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

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

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information**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.