

Trade name: Acid ascorbicum Food / China

Substance number: 060085

Version: 2 / CH

Date revised: 25.05.2023

Replaces Version: 1 / CH

Print date: 25.05.23

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

### **1.1. Product identifier**

Acid ascorbicum Food / China

Item No. 06008500

### **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 &gt;= 95 %

Advice: [4]

Trade name: Acid ascorbicum Food / China

Substance number: 060085

Version: 2 / CH

Date revised: 25.05.2023

Replaces Version: 1 / CH

Print date: 25.05.23

**Note**

[4] Voluntary information

**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**

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

Trade name: Acid ascorbicum Food / China

Substance number: 060085

Version: 2 / CH

Date revised: 25.05.2023

Replaces Version: 1 / CH

Print date: 25.05.23

## 7.2. Conditions for safe storage, including any incompatibilities

### Recommended storage temperature

Value &lt; 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	solid
Colour	white
Odour	odourless
Physical state	Crystalline powder
Melting point	
Value	190 to 192 °C
Boiling point or initial boiling point and boiling range	
Remarks	not determined

Trade name: Acid ascorbicum Food / China

Substance number: 060085

Version: 2 / CH

Date revised: 25.05.2023

Replaces Version: 1 / CH

Print date: 25.05.23

**Flash point**

Value	°C
Remarks	Not applicable

**Decomposition temperature**

Remarks	To avoid thermal decomposition, do not overheat.
Remarks	exothermic

**pH value**

Value	2.2	to	2.5
Concentration/H <sub>2</sub> O	5	%	

**Solubility(ies)**

Diethyl ether	
Remarks	virtually insoluble
Ethanol	
Value	appr. 20 %

**Partition coefficient n-octanol/water (log value)**

log Pow	-2.0
---------	------

**Vapour pressure**

Value	< 0.001	hPa
-------	---------	-----

**9.2. Other information****Solubility in water**

Value	appr. 300	g/l
-------	-----------	-----

**Dissociation constant**

Value	4.17	to	11.57
-------	------	----	-------

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

Reactions with strong oxidising agents. Bases, copper (Cu), aluminium (Al), Zinc

**10.2. Chemical stability**

No decomposition if stored and applied as directed.

**10.3. Possibility of hazardous reactions**

The product is not a dust explosion risk as supplied; however the build-up of fine dust can lead to a risk of dust explosions.

**10.4. Conditions to avoid**

Sensitive to moisture. Air. Heat

**10.5. Incompatible materials**

Oxidising agents, Bases, copper (Cu), aluminium (Al), Zinc

**10.6. Hazardous decomposition products**

None

**SECTION 11: Toxicological information****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)**

Trade name: Acid ascorbicum Food / China

Substance number: 060085

Version: 2 / CH

Date revised: 25.05.2023

Replaces Version: 1 / CH

Print date: 25.05.23

**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**

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

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

Remarks	No data available
---------	-------------------

**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 sensitization effect known.
---------	--------------------------------

**Sensitization (Components)****Ascorbic acid**

Species	guinea pig		
evaluation	non-sensitizing		

**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)**

Trade name: Acid ascorbicum Food / China

Substance number: 060085

Version: 2 / CH

Date revised: 25.05.2023

Replaces Version: 1 / CH

Print date: 25.05.23

**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**

Remarks No data available.

**Algae toxicity (Components)****Ascorbic acid**

Remarks No data available.

**Bacteria toxicity (Components)****Ascorbic acid**

Remarks No data available.

Trade name: Acid ascorbicum Food / China

Substance number: 060085

Version: 2 / CH

Date revised: 25.05.2023

Replaces Version: 1 / CH

Print date: 25.05.23

## 12.2. Persistence and degradability

### Biodegradability

Duration of test evaluation	15	d
Method	biodegradable	OECD 302B

### Biodegradability (Components)

#### Ascorbic acid

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

#### Ascorbic acid

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

## 12.3. Bioaccumulative potential

### Partition coefficient n-octanol/water (log value)

log Pow	-2.0
---------	------

### 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

Disposal in compliance with local and national regulations.

#### Disposal recommendations for packaging

Dispose of as unused product.

## SECTION 14: Transport information

Trade name: Acid ascorbicum Food / China

Substance number: 060085

Version: 2 / CH

Date revised: 25.05.2023

Replaces Version: 1 / CH

Print date: 25.05.23

	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.