



Trade name: Acid ascorbicum

Substance number: 160096

Version: 2 / CH

Date revised: 09.02.12

Replaces Version: 1 / CH

Date of printing: 27.08.12

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

### **1.1. Product identifier**

Acid ascorbicum

Item-No. 73001003

### **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**

Hänseler AG

Industriestrasse 35

9101 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

## **2. Hazards identification**

### **2.2. Label elements**

#### **Labelling in accordance with EC directives 1999/45/EC and 67/548/EEC**

The product does not require a hazard warning label in accordance with EC directives/the relevant national laws.

### **2.3. Other hazards**

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

## **3. Composition/information on ingredients**

#### **Registration no.**

EC No.: 200-066-2

#### **Substance / product identification**

CAS-Nr. 50-81-7

EINECS-Nr. 200-066-2

INCI Ascorbic Acid

#### **Molecular weight**

Value 176.13 g/mol

## **4. First aid measures**

### **4.1. Description of first aid measures**

#### **General information**

No special measures necessary.

#### **After inhalation**



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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.

## **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.

## **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.

## **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 formation of dust. The product is capable of a dust explosion. Take precautionary measures against static charges.

### **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.

**Further information on storage conditions**



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

## **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 chapter 7. No measures exceeding the ones mentioned are necessary.

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

Observe the usual precautions when 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

## **9. Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties**

<b>Form</b>	Crystalline powder		
<b>Colour</b>	white to yellow		
<b>pH</b>			
Value	2.2	to	2.5
Concentration/H <sub>2</sub> O	5	g/l	
Remarks	Aqueous extract		
<b>Melting point</b>			
Value	appr. 190		°C
<b>Boiling point</b>			
Remarks	Not determined		
<b>Flash point</b>			
Value	°C		
Remarks	Not applicable		
<b>Vapour pressure</b>			
Value	< 0.001		hPa
Temperature	25	°C	
Source	Literature value		
<b>Solubility in water</b>			
Value	300		g/l
Temperature	20	°C	
<b>Solubility in other solvents</b>			
Diethyl ether			



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Remarks	virtually insoluble		
Ethanol			
Value	appr. 20		%

**Octanol/water partition coefficient (log Pow)**

log Pow	-2.15		
Temperature	23	°C	

**Thermal decomposition**

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

**9.2. Other information****Dissociation constant**

Value	4.17	to	11.57
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**10. Stability and reactivity****10.4. Conditions to avoid**

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

**Thermal decomposition**

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

**10.5. Incompatible materials**

Oxidising agents, Bases

**10.6. Hazardous decomposition products**

Exothermic decomposition

**11. Toxicological information****11.1. Information on toxicological effects****Acute oral toxicity**

Species	rat		
LD50	11290		mg/kg

**Skin corrosion/irritation**

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

**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.		

**Sensitization**

Remarks	No sensitisation effect known.
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**Subacute, subchronic, chronic toxicity**

Chronic toxicity			
Route of exposure	oral		
Species	rat		



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Dose	2000	mg/kg
Duration of exposure	2	y

**Mutagenicity**

valuation No experimental indications on genotoxicity in vivo found.

**Carcinogenicity**

Remarks No evidence available on carcinogenicity.

**Other information**

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

**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	

**12.2. Persistence and degradability****Biodegradability**

Duration of test	15	d
valuation	biodegradable	
method	OECD 302B	

**12.3. Bioaccumulative potential****Octanol/water partition coefficient (log Pow)**

log Pow	-2.15	
Temperature	23	°C

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

In general not water hazardous.

**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.

**14. Transport information****Land transport ADR/RID**

Non-dangerous goods

**Marine transport IMDG/GGVSee**

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

**Air transport ICAO/IATA**

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



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## **15. Regulatory information**

## **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.