

Trade name: Acid benzoicum

Substance number: 060104

Version: 4 / CH

Date revised: 17.12.2018

Replaces Version: 3 / CH

Print date: 01.10.19

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

### **1.1. Product identifier**

Acid benzoicum

Item No. 06010400

### **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**

#### **Classification (Regulation (EC) No. 1272/2008)**

Classification (Regulation (EC) No. 1272/2008)

Skin Irrit. 2 H315

Eye Dam. 1 H318

STOT RE 1 H372

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**

H315

Causes skin irritation.

H318

Causes serious eye damage.

H372

Causes damage to organs through prolonged or repeated exposure.

Lungs

Route of exposure: inhalative

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**Precautionary statements**

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264.1	Wash hands thoroughly after handling.
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.
P501.3	Disposal in compliance with local and national regulations.

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

contains benzoic acid

**SECTION 3: Composition/information on ingredients****Hazardous ingredients****benzoic acid**

CAS No.	65-85-0		
EINECS no.	200-618-2		
Registration no.	01-2119455536-33		
Concentration	>= 50		%
Classification (Regulation (EC) No. 1272/2008)	Skin Irrit. 2	H315	
	Eye Dam. 1	H318	
	STOT RE 1	H372	Lungs; Route of exposure: inhalative

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

Take affected person to fresh air. Adhere to personal protective measures when giving first aid. Remove contaminated 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 off immediately with soap and water and rinse well. Remove contaminated, soaked clothing immediately and dispose of safely.

**After eye contact**

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

**After ingestion**

Let plenty of water be drunk in small gulps. Summon a doctor immediately.

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

Irritation of mucosa, Gastrointestinal complaints, Allergic symptoms

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide, Dry powder, Water, Foam

**5.2. Special hazards arising from the substance or mixture**

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The product is combustible. In case of combustion evolution of dangerous gases possible.

### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighting

Use self-contained breathing apparatus.

#### Other information

Cool endangered containers with water spray jet. Do not discharge into surface waters/groundwater.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Do not inhale dust. Ensure supply of fresh air. Use personal protective clothing.

### 6.2. Environmental precautions

Do not empty into drains.

### 6.3. Methods and material for containment and cleaning up

Dampen, pick up mechanically and dispose of. Clean up affected area. Avoid raising dust.

### 6.4. Reference to other sections

Dangerous substances are not released.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid dust formation. Do not inhale dust.

#### Advice on protection against fire and explosion

Keep away from sources of heat and ignition. 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

Keep container tightly closed in a well-ventilated place. Keep in a cool place. Keep in a dry place. Keep tightly closed in a dry and cool place. Do not use metal containers and metal pinings.

#### Further information on storage conditions

Keep container tightly closed, cool and dry.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Derived No/Minimal Effect Levels (DNEL/DMEL)

##### benzoic acid

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	0.1	mg/m <sup>3</sup>

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

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Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	3	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	62.5	mg/kg/d

**Predicted No Effect Concentration (PNEC)****benzoic acid**

Type of value	PNEC	
Type	Water	
Concentration	0.011	mg/l

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	100	mg/l
Source	Literature value	

**8.2. Exposure controls****General protective and hygiene measures**

Wash hands before breaks and after work. Preventative skin protection.

**Respiratory protection**

necessary; Breathing apparatus in the event of aerosol, mist or fume formation. Particle filter A/P2

**Hand protection**

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Appropriate Material	nitrile rubber - NBR		
Material thickness	0.4	mm	
Breakthrough time	>	480	min

**Eye protection**

Tightly fitting safety glasses

**Body protection**

Clothing as usual in the chemical industry.

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

<b>Form</b>	solid		
<b>Colour</b>	white		
<b>Odour</b>	odourless		
<b>pH value</b>			
Value	2.5	to	3.5
Concentration/H <sub>2</sub> O	g/l		
Temperature	20	°C	
Remarks	Saturated solution		

**Melting point**

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Value	121	to	123	°C
Pressure	1013	hPa		

**Initial boiling point and boiling range**

Value	249			°C
Pressure	1013	hPa		
Method	DIN 51761			

**Flash point**

Remarks Not applicable

**Flammability (solid, gas)**

Not ignitable

**Vapour pressure**

Value	0.001			hPa
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**Density**

Value	1.32			g/cm <sup>3</sup>
Temperature	20	°C		

**Solubility in water**

Value	2.9			g/l
Temperature	25	°C		

**Partition coefficient: n-octanol/water**

log Pow 1.88

**Ignition temperature**

Value	570			°C
Method	DIN 51794			

**9.2. Other information****Bulk density**

Value	500			kg/m <sup>3</sup>
Temperature	20	°C		

**Other information**

Forms explosive mixture with air are possible.

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

Danger of dust explosion

**10.2. Chemical stability**

No decomposition if stored and applied as directed.

**10.3. Possibility of hazardous reactions**

Avoid dust formation. Keep away from sources of heat and ignition.

**10.4. Conditions to avoid**

Heat. Avoid dust formation.

**10.5. Incompatible materials**

Bases, Oxidising agents, Metals, Acids

**10.6. Hazardous decomposition products**

Carbon monoxide and carbon dioxide, Phenol

**Other information**

dust explosions

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## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Acute oral toxicity (Components)**

##### **benzoic acid**

Species	mouse		
LD50	2250		mg/kg
Method	OECD 401		

#### **Acute dermal toxicity (Components)**

##### **benzoic acid**

Species	rabbit		
LD50	> 2000		mg/kg

#### **Acute inhalative toxicity (Components)**

##### **benzoic acid**

Species	rat		
LD50	> 12.2		mg/l
Duration of exposure	4	h	
Method	Value taken from the literature		

#### **Skin corrosion/irritation (Components)**

##### **benzoic acid**

Species	guinea pig
evaluation	irritant
Source	Literature value

#### **Serious eye damage/irritation (Components)**

##### **benzoic acid**

Species	rabbit
evaluation	strongly irritant
Source	Literature value

#### **Sensitization (Components)**

##### **benzoic acid**

Species	guinea pig
Remarks	No sensitisation effect known.
Source	Literature value

#### **Mutagenicity (Components)**

##### **benzoic acid**

evaluation	No mutagenicity in the Ames-test.
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#### **Reproduction toxicity (Components)**

##### **benzoic acid**

Remarks	Indications of toxic effects are available from reproduction studies in animals.
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#### **Carcinogenicity (Components)**

##### **benzoic acid**

evaluation	No indications of carcinogenic effects are available from long-term trials.
Source	Literature value

#### **Specific Target Organ Toxicity (STOT) (Components)**

##### **benzoic acid**

Reference substance	benzoic acid
evaluation	May cause damage to organs.

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Source  
Route of exposure inhalative  
Organs: Lungs  
Literature value

**Experience in practice**

Inhalation of dusts may irritate the respiratory tract. Eye contact. Irritation. ingestion/swallowing. Irritates the mucous membrane.

**Other information**

Observe the usual precautions for handling chemicals.

**SECTION 12: Ecological information****12.1. Toxicity****Fish toxicity (Components)****benzoic acid**

Species Bluegill (*Lepomis macrochirus*)  
LC50 44.6 mg/l  
Duration of exposure 96 h  
Source Literature value

**benzoic acid**

Species rainbow trout (*Oncorhynchus mykiss*)  
NOEC > 120 mg/l  
Duration of exposure 28 d  
Source Literature value

**Daphnia toxicity (Components)****benzoic acid**

Species *Daphnia magna*  
EC50 > 100  
Duration of exposure 48 h  
Source Literature value

**benzoic acid**

Species *Daphnia magna*  
NOEC >= 25 mg/l  
Duration of exposure 21 d  
Method OECD 211  
Source Literature value

**Algae toxicity (Components)****benzoic acid**

Species *Pseudokirchneriella subcapitata*  
EC50 > 33.1  
Duration of exposure 72 h  
Method OECD 201  
Source Literature value

**12.2. Persistence and degradability****Biodegradability (Components)****benzoic acid**

evaluation Readily biodegradable  
Source OECD

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

log Pow 1.88

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## 12.5. Results of PBT and vPvB assessment

### Evaluation of persistence and bioaccumulation potential

The Substance doesn't meets PBT/vPvB-criteria

### Evaluation of persistence and bioaccumulation potential (Components)

#### benzoic acid

Due to the distribution coefficient n-octanol/water, accumulation in organisms is not to be expected.

## 12.6. Other adverse effects

### General information / ecology

Harmful to aquatic organisms. 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

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

## 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

### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

## SECTION 16: Other information

### Hazard statements listed in Chapter 3

H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H372 Causes damage to organs through prolonged or repeated exposure.

### CLP categories listed in Chapter 3

Eye Dam. 1 Serious eye damage, Category 1  
 Skin Irrit. 2 Skin irritation, Category 2  
 STOT RE 1 Specific target organ toxicity - repeated exposure, 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.