

Trade name: Acid benzoicum

Substance number: 060104

Version: 5 / CH

Date revised: 25.09.2024

Replaces Version: 4 / CH

Print date: 25.09.24

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.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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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

2.3. Other hazards

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

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

Value	122.12	g/mol
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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

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5.1. Extinguishing media**Suitable extinguishing media**

Carbon dioxide, Dry powder, Water, Foam

5.2. Special hazards arising from the substance or mixture

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.

Storage classes

Storage class according to TRGS 510	11	Combustible solids
Storage category (Switzerland)	11/13	Other solid hazardous substances with classification/labelling hazardous

Further information on storage conditions

Keep container tightly closed, cool and dry.

SECTION 8: Exposure controls/personal protection *****8.1. Control parameters****Exposure limit values *****

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benzoic acid

List	SUVA			
Type	MAK			
Value	1	mg/m ³	0,2	ppm(V)
Short term exposure limit	4	mg/m ³	0,8	ppm(V)
Remarks: H SSc; Lungenfibrose				

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 ³

Type of value	Derived No Effect Level (DNEL)			
Reference group	Worker			
Duration of exposure	Long term			
Route of exposure	inhalative			
Mode of action	Systemic effects			
Concentration	3			mg/m ³

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

Type of value	Derived No Effect Level (DNEL)			
Reference group	Consumer			
Duration of exposure	Long term			
Route of exposure	inhalative			
Mode of action	Systemic effects			
Concentration	1.5			mg/m ³

Type of value	Derived No Effect Level (DNEL)			
Reference group	Consumer			
Duration of exposure	Long term			
Route of exposure	inhalative			
Mode of action	Local effects			
Concentration	0.06			mg/m ³

Type of value	Derived No Effect Level (DNEL)			
Reference group	Consumer			
Duration of exposure	Long term			
Route of exposure	dermal			
Mode of action	Systemic effects			
Concentration	31.25			mg/kg

Type of value	Derived No Effect Level (DNEL)			
Reference group	Consumer			
Duration of exposure	Long term			
Route of exposure	oral			
Mode of action	Chronic effects			
Concentration	8.3			mg/kg

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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		
Type of value	PNEC		
Type	Saltwater		
Concentration	0.011		mg/l
Type of value	PNEC		
Type	Freshwater sediment		
Concentration	0.149		mg/kg
Type of value	PNEC		
Type	Marine sediment		
Concentration	0.149		mg/kg
Type of value	PNEC		
Type	Water (intermittent release)		
Concentration	3.3		mg/l
Type of value	PNEC		
Type	Soil		
Concentration	0.0233		mg/kg

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

Physical state solid

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Colour white
Odour characteristic
Melting point
 Value 121 to 123 °C
 Pressure 1013 hPa

Boiling point or initial boiling point and boiling range
 Value 249 °C
 Pressure 1013 hPa
 Method DIN 51761

Flammability

Not ignitable

Flash point

Remarks Not applicable

Ignition temperature

Value 570 °C
 Method DIN 51794

pH value

Value 2.5 to 3.5
 Concentration/H₂O appr. 3 g/l
 Temperature 25 °C
 Remarks Saturated solution

Partition coefficient n-octanol/water (log value)

log Pow 1.88

Vapour pressure

Value 0.0011 hPa
 Temperature 20 °C

Density and/or relative density

Value 1.32 g/cm³
 Temperature 20 °C

9.2. Other information**Solubility in water**

Value 2.9 g/l
 Temperature 25 °C

Bulk density

Value 500 kg/m³
 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.

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10.4. Conditions to avoid

Heat. Avoid dust formation.

10.5. Incompatible materials

Bases, Oxidising agents, Metals, Acids, Reducing agents

10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide, Phenol

Other information

dust explosions

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****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**

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Remarks

Indications of toxic effects are available from reproduction studies in animals.

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
evaluation

benzoic acid
May cause damage to organs.
Route of exposure inhalative
Organs: Lungs

Source

Literature value

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

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

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)

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benzoic acid

Species	Raphidocelis 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 value)**

log Pow	1.88
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12.5. Results of PBT and vPvB assessment**Results of PBT and vPvB assessment *****

The product contains no PBT substances
The product contains no vPvB substances.

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

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. 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	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 ***

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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 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.