

Trade name: Acid boricum pulvis

Substance number: 060120

Version: 5 / CH

Date revised: 26.02.2024

Replaces Version: 4 / CH

Print date: 26.02.24

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

### **1.1. Product identifier**

Acid boricum pulvis

Item No. 06012000

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

CAS-No. 10043-35-3

EINECS-No. 233-139-2

### **1.2. Relevant identified uses of the substance or mixture and uses advised against**

#### **Use of the substance/preparation**

Manufacture of pharmaceutical products

### **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)

Repr. 1B

H360FD

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**

H360FD

May damage fertility. May damage the unborn child.

##### **Precautionary statements**

P201

Obtain special instructions before use.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

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P308+P313 IF exposed or concerned: Get medicinal advice/attention.  
 P405 Store locked up.  
 P501.3 Disposal in compliance with local and national regulations.

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

contains \*\*\* boric acid

**Supplemental information****Further supplemental information**

Restricted to professional users

**Other information**

Not for supply to the general public in Switzerland

**2.3. Other hazards**

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 \*\*\*****Hazardous ingredients \*\*\*****boric acid**

CAS No.	10043-35-3		
EINECS no.	233-139-2		
Registration no.	01-2119486683-25		
Concentration	>= 100		%
Classification (Regulation (EC) No. 1272/2008)	Repr. 1B	H360FD	

ATE	oral	2'000	mg/kg
ATE	inhalative, Vapors	0.062	mg/l

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

Remove contaminated, soaked clothing immediately and dispose of safely.

**After inhalation**

Remove the casualty into fresh air and keep him calm. Take medical treatment.

**After skin contact**

After contact with skin, wash immediately with plenty of water. Remove contaminated, soaked clothing immediately and dispose of safely. Take medical treatment.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). By continuous complaints consult a physician.

**After ingestion**

Rinse out mouth and give plenty of water to drink. Summon a doctor immediately.

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

Convulsions, Gastrointestinal complaints, Nausea, Vomiting, Tiredness

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

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**Suitable extinguishing media**

Extinguishing measures to suit surroundings

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

The product is not combustible.

**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

Use self-contained breathing apparatus.

**Other information**

Collect contaminated fire-fighting water separately, must not be discharged into the drains.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Do not inhale dust. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

**6.2. Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

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

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

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Provide good ventilation of working area (local exhaust ventilation if necessary). Observe safety references and application instructions mentioned on can.

**7.2. Conditions for safe storage, including any incompatibilities****Storage classes**

Storage class according to TRGS 510	6.1D	Non-combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects
Storage category (Switzerland)	6.1	

Toxic substances

**Further information on storage conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place.

**7.3. Specific end use(s)**

Manufacture of pharmaceutical products

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

List	SUVA		
Type	MAK		
Value		1,8	ppm(V)
Short term exposure limit		1,8	ppm(V)

Pregnancy group: S; Remarks: SSB R1BF R1BD; OAW, NIOSH

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**Derived No/Minimal Effect Levels (DNEL/DMEL)****boric acid**

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	8.28	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	392	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	oral	
Mode of action	Acute effects	
Concentration	0.98	mg/kg/d
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	0.98	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	4.15	mg/m <sup>3</sup>
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	196	mg/kg/d

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

Type of value	PNEC	
Type	Freshwater	
Concentration	2.02	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	2.02	mg/l
Type of value	PNEC	

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Type	Water (intermittent release)	
Concentration	13.7	mg/l
Type of value	PNEC	
Type	Soil	
Concentration	5.4	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	10	mg/l

## 8.2. Exposure controls

### General protective and hygiene measures

Remove contaminated, soaked clothing immediately and dispose of safely. Wash hands before breaks and after work.

### Respiratory protection

Breathing apparatus in the event of aerosol. Particle filter A/P2

### Hand protection

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

### Eye protection

Tightly fitting safety glasses

### Body protection

Protective clothing

## SECTION 9: Physical and chemical properties

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

Physical state	Powder
Colour	white
Odour	odourless
<b>Melting point</b>	
Value	185 °C
<b>Boiling point or initial boiling point and boiling range</b>	
Remarks	Not applicable
<b>Upper and lower explosive limits</b>	
Remarks	Not applicable
<b>Flash point</b>	
Value	°C
Remarks	Not applicable
<b>Ignition temperature</b>	
Remarks	Not applicable
<b>pH value</b>	
Value	3.8 to 4.8
Concentration/H <sub>2</sub> O	33 g/l
Temperature	20 °C
<b>Partition coefficient n-octanol/water (log value)</b>	

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log Pow	-1.09	
Temperature	25	°C

**Vapour pressure**

Remarks	Not applicable
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**Density and/or relative density**

Value	1.44		g/cm <sup>3</sup>
Temperature	20	°C	
Pressure	1013	hPa	

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

Value	49.2		g/l
Temperature	20	°C	
Method	OECD 105		

**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**

Possible incompatibility with materials listed under section 10.5.

**10.4. Conditions to avoid**

Protect from heat/overheating.

**10.5. Incompatible materials**

Reducing agents

**10.6. Hazardous decomposition products**

None known

**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)****boric acid**

Species	rat			
LD50	2000	to	5000	mg/kg
Method	OECD 401			

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

Species	rabbit			
LD50	> 2000			mg/kg
Method	US EPA FIFRA			

**Acute inhalational toxicity**

ATE	0.062	mg/l
Administration/Form	Vapors	

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Method calculated value (Regulation (EC) No. 1272/2008)

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

Species	rat	
LD50	> 2.0	mg/l
Method	OECD 403	

**boric acid**

Species	rat	
NOAEL	0.062	mg/l
Duration of exposure	21	d
Administration/Form	Vapors	
Source	OECD 412	

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

Species	rabbit
evaluation	non-irritant
Method	EPA FIFRA (40 CFR 163)

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

Species	rabbit
evaluation	non-irritant
Method	OECD 405

**Sensitization (Components)****boric acid**

Species	guinea pig
evaluation	non-sensitizing
Method	OECD 406

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

Remarks	No data available
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**Mutagenicity (Components)****boric acid**

evaluation	No mutagenicity in the Ames-test.
Method	Ames test
Remarks	Based on available data, the classification criteria are not met.

**Reproduction toxicity (Components)****boric acid**

evaluation	May damage the unborn child.
Remarks	May cause adverse reproductive effects.

**Carcinogenicity (Components)****boric acid**

Species	mouse
Method	OECD 451
Remarks	Based on available data, the classification criteria are not met.

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

Remarks	Based on available data, the classification criteria are not met.
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**11.2 Information on other hazards**

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**Endocrine disrupting properties with respect to humans**

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

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

Species	rainbow trout ( <i>Oncorhynchus mykiss</i> )		
LC50	50	100	mg/l
Duration of exposure	96	h	

**boric acid**

Species	Bluegill ( <i>Lepomis macrochirus</i> )		
LC0	>	1021	mg/l
Duration of exposure	96	h	

**boric acid**

Species	rainbow trout ( <i>Oncorhynchus mykiss</i> )		
LC50	79		mg/l
Duration of exposure	96	h	

**Daphnia toxicity (Components)****boric acid**

Species	Daphnia magna		
LC50	53.2		mg/l
Duration of exposure	21	d	

**boric acid**

Species	Daphnia magna		
EC50	133		mg/l
Duration of exposure	48	h	

**Algae toxicity (Components)****boric acid**

Species	Pseudokirchneriella subcapitata		
	52.4		mg/l
Duration of exposure	74.5	h	
Method	OECD 201		

**Bacteria toxicity (Components)****boric acid**

Remarks	No data available		
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**12.3. Bioaccumulative potential****Partition coefficient n-octanol/water (log value)**

log Pow	-1.09	
Temperature	25	°C

**12.4. Mobility in soil****General information**

No data available

**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.



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## 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

Do not allow 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

Uncontaminated packaging may be reused.

## 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 been carried out.

## SECTION 16: Other information

### Hazard statements listed in Chapter 3

H360FD May damage fertility. May damage the unborn child.

### CLP categories listed in Chapter 3

Repr. 1B Reproductive toxicity, Category 1B

### 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.