

Trade name: Acid boricum pulvis

Substance number: 060120

Version: 3 / CH

Date revised: 28.12.2016

Replaces Version: 2 / CH

Print date: 28.12.16

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

### **1.1. Product identifier**

Acid boricum pulvis

Item No. 06012099

#### **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**

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

## **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

**Further supplemental information \*\*\***

Restricted to professional users

**Other information \*\*\***

Not for supply to the general public in Switzerland

**SECTION 3: Composition/information on ingredients \*\*\*****Hazardous ingredients (Regulation (EC) No. 1272/2008) \*\*\*****Boric acid**

CAS No.	10043-35-3	
EINECS no.	233-139-2	
Registration no.	01-2119486683-25	
Concentration	>= 50	%
Classification (Regulation (EC) No. 1272/2008)		
Repr. 1B	H360FD	

Concentration limits (Regulation (EC) No. 1272/2008)		
Repr. 1B	H360F	>= 5.5
	D	

**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****Suitable extinguishing media**

Extinguishing measures to suit surroundings

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

The product is not combustible.

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**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 class according to TRGS 510**

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

**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	10	mg/m <sup>3</sup>
Short term exposure limit	10	mg/m <sup>3</sup>
Pregnancy group: S; Status: 2014		

**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

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**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**

<b>Form</b>	Powder		
<b>Colour</b>	white		
<b>Odour</b>	odourless		
<b>pH value</b>			
Value	3.8	to	4.8
Concentration/H <sub>2</sub> O	33	g/l	
Temperature	20	°C	
<b>Melting point</b>			
Value	185		°C
<b>Initial boiling point and boiling range</b>			
Remarks	Not applicable		
<b>Flash point</b>			
Remarks	Not applicable		
<b>Upper/lower flammability or explosive limits</b>			
Remarks	Not applicable		
<b>Vapour pressure</b>			
Remarks	Not applicable		
<b>Density</b>			
Value	1.44		g/cm <sup>3</sup>
Temperature	20	°C	
Pressure	1013	hPa	
<b>Solubility in water</b>			
Value	appr. 50		g/l
Temperature	21	°C	
<b>Partition coefficient: n-octanol/water</b>			
log Pow	-1.09		
Temperature	25	°C	
<b>Ignition temperature</b>			
Remarks	Not applicable		

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

No decomposition if stored and applied as directed.

**10.2. Chemical stability**

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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 toxicological effects****Acute oral toxicity (Components)****Boric acid**

Species	rat		
LD50		2660	mg/kg

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

Species	rat		
LD50	>	2000	mg/kg

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

Species	rat		
LD50	>	2.03	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		slightly irritant	

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

Species	rabbit		
evaluation		slightly irritant	

**Sensitization (Components)****Boric acid**

Species	guinea pig		
evaluation		non-sensitizing	
Method		OECD 406	

**Mutagenicity (Components)****Boric acid**

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

**Carcinogenicity (Components)****Boric acid**

Remarks No data available

**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	

**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	

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

log Pow	-1.09	
Temperature	25	°C

**12.6. 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**

Non-dangerous goods

**Marine transport IMDG/GGVSee**

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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.

## **SECTION 15: Regulatory information**

### **15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not 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.