

Trade name: Acid boricum pulvis

Substance number: 060120

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 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

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

>= 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

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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**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; Status: 2017; Remarks: SSB R1BF R1BD; OAW, NIOSH

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

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| | |
|----------------------|----------------------|
| 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**

| | |
|---------------|-----------|
| Form | Powder |
| Colour | white |
| Odour | odourless |

pH value

| | | | |
|--------------------------------|-----|-----|-----|
| Value | 3.8 | to | 4.8 |
| Concentration/H ₂ O | 33 | g/l | |
| Temperature | 20 | °C | |

Melting point

| | | |
|-------|-----|----|
| Value | 185 | °C |
|-------|-----|----|

Initial boiling point and boiling range

| | |
|---------|----------------|
| Remarks | Not applicable |
|---------|----------------|

Flash point

| | |
|---------|----------------|
| Remarks | Not applicable |
|---------|----------------|

Upper/lower flammability or explosive limits

| | |
|---------|----------------|
| Remarks | Not applicable |
|---------|----------------|

Vapour pressure

| | |
|---------|----------------|
| Remarks | Not applicable |
|---------|----------------|

Density

| | | |
|-------------|------|-------------------|
| Value | 1.44 | g/cm ³ |
| Temperature | 20 | °C |
| Pressure | 1013 | hPa |

Solubility in water

| | | |
|-------------|----------|-----|
| Value | appr. 50 | g/l |
| Temperature | 21 | °C |

Partition coefficient: n-octanol/water

| | |
|-------------|-------|
| log Pow | -1.09 |
| Temperature | 25 °C |

Ignition temperature

| | |
|---------|----------------|
| Remarks | Not applicable |
|---------|----------------|

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

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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**

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

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Reproduction toxicity (Components)**Boric acid**

evaluation

May damage the unborn child.

Remarks

May cause adverse reproductive effects.

Carcinogenicity (Components)**Boric acid**

Remarks

No data available

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

Species

rainbow trout (*Oncorhynchus mykiss*)

LC50

50

100

mg/l

Duration of exposure

96

h

Boric acid

Species

Bluegill (*Lepomis macrochirus*)

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

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| | 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

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Water Hazard Class (Germany)

Water Hazard Class (Germany) WGK 1

Identification number 315

Remarks Classification according to Annex 2 VwVwS

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.