

Trade name: Acid boricum griessform

Substance number: 060112

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 griessform

Item No. 06011200

### **Registration no.**

Registration no. 01-2119486683-25-XXXX

### **Substance / product identification**

CAS-No. 10043-35-3

### **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.

P308+P313

IF exposed or concerned: Get medicinal advice/attention.

P405

Store locked up.

P501.3

Disposal in compliance with local and national regulations.

Trade name: Acid boricum griessform

Substance number: 060112

Version: 4 / CH

Date revised: 17.12.2018

Replaces Version: 3 / CH

Print date: 01.10.19

**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  $\geq$  50 %Classification (Regulation (EC) No. 1272/2008)  
Repr. 1B H360FD

Concentration limits (Regulation (EC) No. 1272/2008)

Repr. 1B H360F  $\geq$  5.5  
D**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove contaminated clothing immediately and dispose of safely. Seek medical advice immediately.

**After inhalation**

Ensure supply of fresh air. In the event of symptoms take medical treatment. Remove the casualty into fresh air and keep him calm.

**After skin contact**

Wash off immediately with soap and water and rinse well.

**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. Induce vomiting if patient is conscious, seek medical advice.

**4.3. Indication of any immediate medical attention and special treatment needed****Hints for the physician / treatment**

Treat symptomatically

**Hints for the physician / hazards**

Bei anhaltenden Beschwerden Arzt rufen

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

Suitable extinguishing media

Trade name: Acid boricum griessform

Substance number: 060112

Version: 4 / CH

Date revised: 17.12.2018

Replaces Version: 3 / CH

Print date: 01.10.19

Extinguishing measures to suit surroundings, Carbon dioxide, Dry powder, Water spray jet, Extinguish greater fire with water spray or alcohol-resistant foam.

**Non suitable extinguishing media**

Full water jet

**5.2. Special hazards arising from the substance or mixture**Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>)**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

Use self-contained breathing apparatus.

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

Ensure adequate ventilation. Avoid dust formation. Keep away unprotected persons. Wear protective equipment

**6.2. Environmental precautions**

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

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

Pick up mechanically. When picked up, treat material as prescribed under Section 13 "Disposal".

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

Avoid dust formation. Provide good ventilation of working area (local exhaust ventilation if necessary).

**Advice on protection against fire and explosion**

The product is not combustible. Hold breathing apparatus.

**7.2. Conditions for safe storage, including any incompatibilities****Recommended storage temperature**

|       |    |    |
|-------|----|----|
| Value | 25 | °C |
|-------|----|----|

**Requirements for storage rooms and vessels**

Keep in a dry place. Keep in a cool place.

**Further information on storage conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from heat and direct sunlight. Protect from atmospheric moisture and water.

**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**

Trade name: Acid boricum griessform

Substance number: 060112

Version: 4 / CH

Date revised: 17.12.2018

Replaces Version: 3 / CH

Print date: 01.10.19

**General protective and hygiene measures**

Keep away from food-stuffs, beverages and feed-stocks. Remove contaminated, soaked clothing immediately and dispose of safely. Wash hands before breaks and after work. Store work clothing separately.

**Respiratory protection**

Use breathing apparatus in dust/fumes/mist-laden atmosphere. Particle filter half mask, filter P3 - Norm NF EN 149

**Hand protection**

necessary

Appropriate Material

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

Appropriate Material

Natural Latex

Material thickness 0.5 mm

Breakthrough time  $\geq$  8 h

Appropriate Material

Polychloroprene

Material thickness 0.5 mm

Breakthrough time  $\geq$  8 h

Appropriate Material

nitrile rubber - NBR

Material thickness 0.35 mm

Breakthrough time  $\geq$  8 h

Appropriate Material

Butyl rubber - Butyl

Material thickness 0.5 mm

Breakthrough time  $\geq$  8 h

Appropriate Material

Fluoro carbon rubber - FKM

Material thickness 0.4 mm

Breakthrough time  $\geq$  8 h

Appropriate Material

PVC

Material thickness 0.5 mm

Breakthrough time  $\geq$  8 h

**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** solid

**Colour** white

**Odour** odourless

**pH value**

Value 3.7

Concentration/H<sub>2</sub>O 47 g/l

Temperature 20 °C

**Melting point**

Value 171 °C

**Flash point**

Remarks Not applicable

**Flammability (solid, gas)**

Not ignitable

Trade name: Acid boricum griessform

Substance number: 060112

Version: 4 / CH

Date revised: 17.12.2018

Replaces Version: 3 / CH

Print date: 01.10.19

**Vapour pressure**

|             |     |    |     |
|-------------|-----|----|-----|
| Value       | 0.0 |    | hPa |
| Temperature | 20  | °C |     |

**Density**

|             |      |    |                   |
|-------------|------|----|-------------------|
| Value       | 1.51 |    | g/cm <sup>3</sup> |
| Temperature | 20   | °C |                   |

**Solubility in water**

|             |      |    |     |
|-------------|------|----|-----|
| Value       | 47   |    | g/l |
| Temperature | 20   | °C |     |
| Value       | 27.5 |    |     |
| Temperature | 100  | °C |     |

**Decomposition temperature**

|       |     |  |    |
|-------|-----|--|----|
| Value | 169 |  | °C |
|-------|-----|--|----|

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

|       |           |  |                   |
|-------|-----------|--|-------------------|
| Value | appr. 900 |  | kg/m <sup>3</sup> |
|-------|-----------|--|-------------------|

**Other information**

The product is non-combustible.

**SECTION 10: Stability and reactivity****10.4. Conditions to avoid**

At increase of temperature the stability decrease and the product will be degraded.

**10.5. Incompatible materials**

Reactions with reducing agents. Incompatible with: Strong oxidising agents

**10.6. Hazardous decomposition products**

Carbon monoxide and carbon dioxide

**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     |      |

Trade name: Acid boricum griessform

Substance number: 060112

Version: 4 / CH

Date revised: 17.12.2018

Replaces Version: 3 / CH

Print date: 01.10.19

Administration/Form Vapors  
Source OECD 412

**Skin corrosion/irritation**

evaluation slightly irritant

**Serious eye damage/irritation**

evaluation slightly irritant

**Sensitization**

Remarks No sensitisation effect known.

**Sensitization (Components)**

**Boric acid**

Species guinea pig  
evaluation non-sensitizing  
Method OECD 406

**Experience in practice**

Kidney damage is possible.

**SECTION 12: Ecological information**

**12.1. Toxicity**

**Fish toxicity**

Species Gambusia affinis  
LC50 5600 mg/l  
Duration of exposure 96 h

**Fish toxicity (Components)**

**Boric acid**

Species rainbow trout (Oncorhynchus mykiss)  
LC50 50 to 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**

Species Daphnia magna  
EC50 48 to 133 mg/l  
Duration of exposure 48 h  
Species Daphnia magna  
NOEC 6 to 13 mg/l  
Duration of exposure 21 Days

**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**

Species Scenedesmus subspicatus

Trade name: Acid boricum griessform

Substance number: 060112

Version: 4 / CH

Date revised: 17.12.2018

Replaces Version: 3 / CH

Print date: 01.10.19

IC10 24 mg/l  
Duration of exposure 96 h

**Bacteria toxicity**

Species Pseudomonas putida  
EC10 133 mg/l

**12.6. Other adverse effects****General information / ecology**

Product is slightly hazardous to water. 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**

EWC waste code No not dispose with rubbish.  
EWC waste code Should not be released into the sanitary sewer system.  
Disposal in compliance with local and national regulations.

**Disposal recommendations for packaging**

Packaging that cannot be cleaned should be disposed off as product waste.  
Disposal in compliance with local and national regulations.

**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****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Water Hazard Class (Germany)**

Water Hazard Class WGK 1  
(Germany)  
Remarks Classification according to Annex 4 VwVwS

**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

Trade name: Acid boricum griessform

Substance number: 060112

Version: 4 / CH

Date revised: 17.12.2018

Replaces Version: 3 / CH

Print date: 01.10.19

guarantee for any specific product properties and shall not establish a legally valid relationship.