

Trade name: Borax pulv

Substance number: 061912

Version: 8 / CH

Date revised: 15.07.2025

Replaces Version: 7 / CH

Print date: 15.07.25

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

### **1.1. Product identifier**

Borax pulv

Item No. 06191200

### **Registration no.**

Registration no. 01-2119490790-32-XXXX

### **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)

Eye Irrit. 2	H319
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 \*\*\***

H319	Causes serious eye irritation.
H360FD	May damage fertility. May damage the unborn child.

#### **Precautionary statements \*\*\***

P201	Obtain special instructions before use.
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.

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P308+P313

IF exposed or concerned: Get medicinal advice/attention.

P501.3

Disposal in compliance with local and national regulations.

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

contains \*\*\*

disodium tetraborate decahydrate

**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 \*\*\*****Molecular weight**

Value

381.37

g/mol

**Hazardous ingredients \*\*\*****disodium tetraborate decahydrate**

CAS No. 1303-96-4

EINECS no. 215-540-4

Registration no. 01-2119490790-32

Concentration  $\geq$  50 %

Classification (Regulation (EC) No. 1272/2008)

Eye Irrit. 2 H319

Repr. 1B H360FD

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

Repr. 1B H360F  $\geq$  8.5 %

D

**Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH). \*\*\***

disodium tetraborate decahydrate

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

Remove affected person from danger area, lay him down. Take off contaminated clothing and shoes immediately.

**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.

**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, seek medical advice.

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### **Adhere to personal protective measures when giving first aid**

First aider: Pay attention to self-protection!

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

Important or other important known symptoms and effects are described in the GHS labelling of the product (see section 2) and in section 11.

### **4.3. Indication of any immediate medical attention and special treatment needed**

#### **Hints for the physician / treatment**

Symptomatic treatment (decontamination, vital functions), no specific antidote known.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

#### **Non suitable extinguishing media**

No extinguishing agent restrictions

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

Development of toxic gases

### **5.3. Advice for firefighters**

#### **Special protective equipment for fire-fighting**

Use self-contained breathing apparatus. Use personal protective clothing.

#### **Other information**

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Use personal protective clothing. Avoid contact with eyes and skin. Do not inhale dust.

### **6.2. Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. Advise water authority if spillage has entered water course or drainage system.

### **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. Handle and open container with care. For personal protection see Section 8. Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid contact with skin and eyes. Do not inhale dust.

#### **Advice on protection against fire and explosion**

Hold breathing apparatus. Substance/product does not ignite spontaneously.

### **7.2. Conditions for safe storage, including any incompatibilities**

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**Requirements for storage rooms and vessels**

Keep tightly closed in a dry and cool place.

**Hints on storage assembly**

Do not store together with foodstuffs. Keep away from reducing agents.

**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 container dry in a cool, well-ventilated place. Protect from atmospheric moisture and water.

**SECTION 8: Exposure controls/personal protection \*\*\*****8.1. Control parameters****Exposure limit values \*\*\*****disodium tetraborate decahydrate**

List	SUVA		
Type	MAK		
Value		0,8	ppm(V)
Short term exposure limit		0,8	ppm(V)
Pregnancy group: S; Remarks: SSc R1BF R1BD ;OAW, NIOSH			

**Derived No/Minimal Effect Levels (DNEL/DMEL)****disodium tetraborate decahydrate**

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	12.8		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	599.6		mg/kg/d
Type of value	Derived No Effect Level (DNEL)		
Reference group	General Population		
Duration of exposure	Long term		
Route of exposure	inhalative		
Mode of action	Systemic effects		
Concentration	6.5		mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)		
Reference group	General Population		
Duration of exposure	Long term		
Route of exposure	dermal		
Mode of action	Systemic effects		
Concentration	303.5		mg/kg/d

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Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	1.15	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Acute	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	1.5	mg/kg/d

### Predicted No Effect Concentration (PNEC)

#### disodium tetraborate decahydrate

Type of value	PNEC	
Type	Water	
Concentration	2.9	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	2.9	mg/l
Type of value	PNEC	
Type	Whole substance	
Concentration	13.7	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	10	mg/l
Type of value	PNEC	
Type	Soil	
Concentration	5.7	mg/kg

## 8.2. Exposure controls

### 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

Short term: filter apparatus; At intensive and longer exposition use self-contained breathing apparatus. Respiratory protection according to EN141; Particle filter P2; Particle filter P3

### Hand protection

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.

Hand protection must comply with EN 374.

Gloves (alkali-resistant)

Appropriate Material	Polychloroprene
Material thickness	0.5 mm
Breakthrough time	>= 8 h
Gloves (alkali-resistant)	

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Appropriate Material	nitrile		
Material thickness	0.35	mm	
Breakthrough time	>= 8	h	
Gloves (alkali-resistant)			
Appropriate Material	Butyl rubber - Butyl		
Material thickness	0.5	mm	
Breakthrough time	>= 8	h	
Gloves (alkali-resistant)			
Appropriate Material	Fluoro carbon rubber - FKM		
Material thickness	0.4	mm	
Breakthrough time	>= 8	h	
Gloves (alkali-resistant)			
Appropriate Material	PVC		
Material thickness	0.5	mm	
Breakthrough time	>= 8	h	
Appropriate Material	Natural Latex		
Material thickness	0.5	mm	
Breakthrough time	>= 8	h	

**Eye protection**

Safety glasses with side protection shield; Eye protection must comply with EN 166.

**Body protection**

Protective clothing

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties****Physical state** crystalline**Colour** white**Odour** odourless**Melting point**

Value appr. 62 °C

**Boiling point or initial boiling point and boiling range**

Value 1575 °C

Source GESTIS-Stoffdatenbank

**Flammability**

Not ignitable

**Flash point**Value °C  
Remarks Not applicable**Decomposition temperature**

Value 1575 °C

**pH value**Value appr. 9.2  
Concentration/H<sub>2</sub>O 25 g/l  
Temperature 20 °C  
Source GESTIS-Stoffdatenbank**Vapour pressure**

Remarks Not applicable

**Density and/or relative density**Value 1.71 g/cm<sup>3</sup>  
Temperature 20 °C

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Source

GESTIS-Stoffdatenbank

**9.2. Other information****Odour threshold**

Remarks

not determined

**Solubility in water**

Value

appr. 47

g/l

Temperature

20 °C

**Bulk density**

Value

810

kg/m<sup>3</sup>**Other information**

The product is not dangerous for explosions.

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

No hazardous reactions when stored and handled according to prescribed instructions.

**10.2. Chemical stability**

No decomposition if stored and applied as directed.

**10.3. Possibility of hazardous reactions**

The reaction with strong reducing agents such as metal hydrides or alkali metals produces hydrogen gas, which can pose an explosion hazard.

**10.4. Conditions to avoid**

Water loss during heating

**10.5. Incompatible materials**

Strong oxidising agents, Acids, Salts of metals, Alkaline metals, 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 (Components)****disodium tetraborate decahydrate**

Species

rat

LD50

6000

mg/kg

**disodium tetraborate decahydrate**

Species

rat

LD50

2260

mg/kg

**Acute dermal toxicity (Components)****disodium tetraborate decahydrate**

Species

rabbit

LD50

&gt; 2000

mg/kg

**Acute inhalative toxicity (Components)****disodium tetraborate decahydrate**

Species

rat

LC50

&gt; 2

mg/l

**Skin corrosion/irritation (Components)**

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**disodium tetraborate decahydrate**

Species rabbit  
evaluation non-irritant

**Serious eye damage/irritation (Components)****disodium tetraborate decahydrate**

Species rabbit  
Duration of exposure 14 d  
evaluation irritant  
Method OECD 405

**Sensitization (Components)****disodium tetraborate decahydrate**

evaluation non-sensitizing

**Mutagenicity (Components)****disodium tetraborate decahydrate**

Remarks Not documented.

**Reproduction toxicity (Components)****disodium tetraborate decahydrate**

evaluation May damage fertility.

**disodium tetraborate decahydrate**

evaluation May damage the unborn child.

**Carcinogenicity (Components)****disodium tetraborate decahydrate**

Remarks Not documented.

**Specific Target Organ Toxicity (STOT) (Components)****disodium tetraborate decahydrate****Single exposure**

evaluation No indications of STOT effects are available.

**disodium tetraborate decahydrate****Repeated exposure**

evaluation No indications of STOT effects are available.

**11.2 Information on other hazards****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****General information**

Test conducted with a similar formulation.

**Fish toxicity (Components)****disodium tetraborate decahydrate**

Species Limanda limanda  
LC50 74 mg/l  
Duration of exposure 96 h  
Source Natriumtetraborat

**disodium tetraborate decahydrate**

Species goldfish (Carassius auratus)

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LC50	630	mg/l
Duration of exposure	72 h	

**disodium tetraborate decahydrate**

Species	Fathead minnow ( <i>Pimephales promelas</i> )
LC50	79.7 mg/l

**disodium tetraborate decahydrate**

Species	zebra fish ( <i>Brachydanio rerio</i> )
NOEC	6.4 mg/l
Duration of exposure	34 d

**Daphnia toxicity (Components)****disodium tetraborate decahydrate**

Species	Daphnia magna
IC50	342 mg/l
Duration of exposure	24 h
Source	Natriumtetraborat

**disodium tetraborate decahydrate**

Species	Daphnia magna
EC50	1085 to 10402 mg/l
Duration of exposure	48 h

**Algae toxicity (Components)****disodium tetraborate decahydrate**

Species	Scenedesmus subspicatus
IC10	24 mg/l
Duration of exposure	9 h
Source	Natriumtetraborat

**disodium tetraborate decahydrate**

Species	Desmodesmus subspicatus
IC50	158 mg/l
Duration of exposure	96 h

**disodium tetraborate decahydrate**

Species	Phaeodactylum tricornutum
EC50	66 mg/l
Duration of exposure	72 h

**disodium tetraborate decahydrate**

Species	Phaeodactylum tricornutum
EC50	54 mg/l
Duration of exposure	72 h

**Bacteria toxicity (Components)****disodium tetraborate decahydrate**

Species	Pseudomonas putida
EC50	15.8 mg/l
Duration of exposure	16 h

**12.2. Persistence and degradability****Biodegradability (Components)****disodium tetraborate decahydrate**

Remarks	Not applicable
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**12.4. Mobility in soil****Mobility in soil (Components)****disodium tetraborate decahydrate**

Will not adsorb on soil.
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## 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.

## 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 undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Do not allow liquid and/or vapour to enter subsoil.

## 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.

In accordance with regulations for special waste, must be taken, to an underground disposal site.

#### Disposal recommendations for packaging

Completely emptied packagings can be given for recycling.

Packaging that cannot be cleaned should be disposed off as product waste.

## 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

WGK 1

(Germany)

Remarks

Derivation of WGK according to Annex 1 No. 5.2 AwSV

## SECTION 16: Other information

### Hazard statements listed in Chapter 3

H319

Causes serious eye irritation.

H360FD

May damage fertility. May damage the unborn child.

### CLP categories listed in Chapter 3

Eye Irrit. 2

Eye irritation, Category 2

Repr. 1B

Reproductive toxicity, Category 1B

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### 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.