

Trade name: Borax pulv

Substance number: 066648

Version: 4 / CH

Date revised: 19.06.2023

Replaces Version: 3 / CH

Print date: 19.06.23

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

1.1. Product identifier

Borax pulv

Item No. 06664800

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)

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.

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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	381.32	g/mol
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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	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take affected person to fresh air. Summon a doctor immediately.

After skin contact

After contact with skin, wash immediately with plenty of water. Remove contaminated, soaked clothing immediately and dispose of safely. Summon a doctor immediately.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Eye treatment by an ophthalmologist.

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

Gastrointestinal complaints, Irritation of mucosa, Nausea, Vomiting, Excitement, Convulsions, CNS Disturbance, Cardiovascular disturbance

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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 combustible.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus. Wear protective clothing.

Other information

Do not discharge into surface waters/groundwater.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Do not inhale dust. Ensure adequate ventilation.

6.2. Environmental precautions

Do not empty into drains.

6.3. Methods and material for containment and cleaning up

To pick up dry. 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

Work only in fume cupboards. Do not inhale substance. Observe safety references and application instructions mentioned on can.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed and dry. Keep in a dry place.

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 in a well-ventilated place. Keep under lock and key or accessible only to specialists or people who are authorized.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

disodium tetraborate decahydrate

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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			

8.2. Exposure controls

General protective and hygiene measures

Work only in fume cupboards. Do not breathe dust. Remove contaminated, soaked clothing immediately and dispose of safely. Wash hands and face after work. Preventative skin protection.

Respiratory protection

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

Hand protection

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

Eye protection

Tightly fitting safety glasses

Body protection

protective overalls

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Powder
Colour	white
Odour	odourless
Melting point	
Value	742 °C
Source	GESTIS-Stoffdatenbank
Boiling point or initial boiling point and boiling range	
Remarks	No data available
Flash point	
Value	°C
Remarks	Not applicable
Decomposition temperature	
Value	75 °C
Remarks	Loss of crystal water.
pH value	
Value	9.2
Concentration/H ₂ O	47 g/l
Temperature	20 °C
Partition coefficient n-octanol/water (log value)	
log Pow	-1.53
Temperature	22 °C
Density and/or relative density	
Value	1.72 g/cm ³
Temperature	20 °C
Remarks	Relative Density according specification

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9.2. Other information**Solubility in water**

Value	51.4		g/l
Temperature	20	°C	

Bulk density

Value	1742		kg/m ³
Temperature	23	°C	

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

No decomposition if stored and applied as directed.

10.2. Chemical stability

Heat

10.3. Possibility of hazardous reactions

Possible incompatibility with materials listed under section 10.5.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

10.5. Incompatible materials

Reactions with strong oxidising agents. Reactions with acids.

10.6. Hazardous decomposition products

No data available.

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	>	2000	mg/kg

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

Species	rat		
LC50	>	2	mg/l

Skin corrosion/irritation (Components)**disodium tetraborate decahydrate**

Species	rabbit		
evaluation		non-irritant	

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

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

Sensitization (Components)**disodium tetraborate decahydrate**

evaluation	non-sensitizing
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Mutagenicity (Components)**disodium tetraborate decahydrate**

Remarks	Not documented.
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Reproduction toxicity (Components)**disodium tetraborate decahydrate**

evaluation	May damage fertility.
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disodium tetraborate decahydrate

evaluation	May damage the unborn child.
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Carcinogenicity (Components)**disodium tetraborate decahydrate**

Remarks	Not documented.
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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.

Experience in practice

Irritating effect on the respiratory tract.

Other information

Observe the usual precautions for handling chemicals.

Repr. Cat. 2

SECTION 12: Ecological information**12.1. Toxicity****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)	
LC50	630	mg/l
Duration of exposure	72	h

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

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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

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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12.3. Bioaccumulative potential**Partition coefficient n-octanol/water (log value)**

log Pow	-1.53	
Temperature	22	°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.

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 soil, 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

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

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Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

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

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

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.