

### **Sodium Borodeuteride**

Classification acc. to 29 CFR 1910.1200

Revision: 2025-06-10

## Replaces version of: 2023-02-03 (GHS 3)

**SECTION 1: Identification** 

### 1.1 Product identifier

Version number: GHS 4.0

Identification of the substance Sodium Borodeuteride

CAS number 15681-89-7

Alternative name(s) sodium [2H4]tetrahydroborate(1-)

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses laboratory and analytical use

product and process oriented research and devel-

opment

scientific research and development

the product is intended for research, analysis and

scientific education laboratory chemical

#### 1.3 Details of the supplier of the safety data sheet

Zeochem AG Joweid 5, CH-8630 Rüti

Switzerland

Telephone: +41 44 922 93 93 e-Mail: info@zeochem.com

Website: https://www.zeochem.com

### 1.4 Emergency telephone number

Poison center					
Country	Name	Telephone			
Switzerland	Toxzentrum Zürich / Tox. Info Suisse	+41 44 251 51 51 / CH: 145 - 24h/7d			
United States	CHEMTREC USA	+1 800 424 9300 - 24h/7d			

#### SECTION 2: Hazard(s) identification

#### 2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Section	Hazard class	Category	Hazard class and cat- egory	Hazard state- ment
A.10	acute toxicity (oral)	3	Acute Tox. 3	H301
A.1I	acute toxicity (inhal.)	4	Acute Tox. 4	H332
A.2	skin corrosion/irritation	1C	Skin Corr. 1C	H314
A.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318
A.7	reproductive toxicity	1B	Repr. 1B	H360F
B.12	substance and mixture which, in contact with water, emits flammable gas	1	Water-react. 1	H260

For full text of abbreviations: see SECTION 16.



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The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis. In contact with water releases flammable gases which may ignite spontaneously.

#### 2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word danger

#### 2.2.1.2 Pictograms

GHS02, GHS05, GHS06, GHS08	
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Hazard statements					
H260	in contact with water releases flammable gases, which may ignite spontaneously				
H301	toxic if swallowed				
H314	causes severe skin burns and eye damage				
H332	harmful if inhaled				
H360F	may damage fertility				

	Precautionary statements					
P201	obtain special instructions before use					
P223	do not allow contact with water					
P231+P232	handle and store contents under inert gas. Protect from moisture					
P260	do not breathe dusts or mists					
P270	do not eat, drink or smoke when using this product					
P271	use only outdoors or in a well-ventilated area					
P280	wear protective gloves/eye protection/face protection					
P301+P310	if swallowed: Immediately call a poison center/doctor					
P301+P330+P331	if swallowed: Rinse mouth. Do NOT induce vomiting					
P303+P361+P353	if on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower					
P304+P340	if inhaled: Remove person to fresh air and keep comfortable for breathing					
P305+P351+P338	if in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing					
P321	specific treatment (see on this label)					
P335+P334	brush off loose particles from skin. Immerse in cool water/wrap in wet bandages					
P363	wash contaminated clothing before reuse					
P370+P378	in case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish					
P402+P404	store in a dry place. Store in a closed container					
P405	store locked up					



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	Precautionary statements
P501	dispose of contents/container in accordance with local/regional/national/international regulations

### 2.3 Other hazards

#### Hazards not otherwise classified

Reacts violently with water.

May be harmful in contact with skin (GHS category 5: acutely toxic - dermal).

Harmful to aquatic life with long lasting effects (GHS category 3: aquatic toxicity - acute and/or chronic).

#### Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

#### Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq$  0.1%.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Name of substance Sodium Borodeuteride

Identifiers

CAS No 15681-89-7
Purity >98 %
Molecular formula NaBD4
Molar mass 41.9 9/mol

#### **SECTION 4: First-aid measures**

#### 4.1 Description of first-aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

#### Following skin contact

Rinse skin with water/shower.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Symptoms and effects are not known to date.

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



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none

### **SECTION 5: Fire-fighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media

D-Powder, Dry sand

Unsuitable extinguishing media

Water jet

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

Product may release hydrogen gas. Increased storage temperatures will accelerate this process. Water-reactive (in contact with water releases flammable gases).

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

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

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

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

#### 6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains, Take up mechanically

Advice on how to clean up a spill

Take up mechanically.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

#### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Recommendations

Store in a dry place.

- Measures to prevent fire as well as aerosol and dust generation Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene



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Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

Managing of associated risks

- Explosive atmospheres Removal of dust deposits.
- Incompatible substances or mixtures
  Do not allow contact with water.
- Evaporative conditions

  Keep container tightly closed and in a well-ventilated place.
- Ventilation requirements

Keep any substance that emits harmful vapors or gases in a place that allows these to be permanently extracted. Use local and general ventilation.

- Packaging compatibilities
Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

#### 7.3 Specific end use(s)

See section 16 for a general overview.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

Occup	Occupational exposure limit values (Workplace Exposure Limits)										
Coun- try	Name of agent	CAS No	Identi- fier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Nota- tion	Source
US	Particulates not otherwise regulated		PEL (CA)		10					dust	Cal/OSH A PEL
US	Particulates not otherwise regulated		PEL (CA)		5					r	Cal/OSH A PEL
US	particulates not otherwise classi- fied (PNOC)		PEL		15					dust	29 CFR 1910.10 00
US	particulates not otherwise classi- fied (PNOC)		PEL	1,765						partml, dust	29 CFR 1910.10 00
US	particulates not otherwise classi- fied (PNOC)		PEL	530						partml, r, dust	29 CFR 1910.10 00
US	particulates not otherwise classi- fied (PNOC)		PEL		5					r	29 CFR 1910.10 00
US	particulate not otherwise regu- lated		REL							appx-D	NIOSH REL



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**Notation** 

appx-D see Appendix D - Substances with No Established RELs

Ceiling-C ceiling value is a limit value above which exposure should not occur

dust as dust partml particles/ml respirable fraction

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute peri-

od (unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours

time-weighted average (unless otherwise specified

#### **Environment values**

Relevant	Relevant PNECs and other threshold levels							
Endpoint	Threshold level	Exposure time						
PNEC	1.75 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	freshwater	short-term (single instance)				
PNEC	1.75 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	marine water	short-term (single instance)				
PNEC	54.8 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)				
PNEC	2.55 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	freshwater sediment	short-term (single instance)				
PNEC	0.255 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	marine sediment	short-term (single instance)				
PNEC	4.8 <sup>mg</sup> / <sub>kg</sub>	terrestrial organisms	soil	short-term (single instance)				

#### 8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

In the case of wanting to use the gloves again, clean them before taking off and air them well.

- Type of material

Nitrile

IIR: isobutene-isoprene (butyl) rubber

- Breakthrough times of the glove material

>30 minutes (permeation: level 2)

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

#### Respiratory protection

Particulate filter device (EN 143).

#### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.



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### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

#### **Appearance**

Physical state	solid
Color	white - grey
Particle size	175 μm
Odor	odorless

#### Other safety parameters

not applicable
>360 °C
>400 °C at 103 kPa
not applicable
not determined
substance which, in contact with water, emits flammable gases (in accordance with GHS criteria)
not determined
<0 Pa at 25 °C
1,080 <sup>kg</sup> / <sub>m³</sub> at 20.5 °C
this information is not available
not determined

#### Partition coefficient

Other information	there is no additional information
Oxidizing properties	none
Explosive properties	none
Viscosity	not relevant (solid matter)
Auto-ignition temperature	>400 °C at 101 kPa (ECHA)
- n-octanol/water (log KOW)	this information is not available

9.2



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#### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". It's a reactive substance. The mixture contains reactive substance(s). Water reactivity.

#### 10.2 Chemical stability

See below "Conditions to avoid".

#### 10.3 Possibility of hazardous reactions

Material reacts vigorously with water emitting flammable gases.

#### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

#### 10.5 Incompatible materials

Water

Release of flammable materials with:

Water

#### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

#### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Toxic if swallowed. Harmful if inhaled.

GHS of the United Nations, annex 4: May be harmful in contact with skin.

- Acute toxicity estimate (ATE)

Oral  $56.6 \, \text{mg/kg}$ Inhalation: dust/mist  $>1.3 \, \text{mg/l/4h}$ 

#### Skin corrosion/irritation

Causes severe skin burns and eye damage.

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

#### Reproductive toxicity

May damage fertility.

### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).



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Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Harmful to aquatic life with long lasting effects.

Aquatic toxicity (acute)			
Endpoint	Value	Species	Exposure time
LC50	74 <sup>mg</sup> / <sub>l</sub>	fish	96 h

#### 12.2 Persistence and degradability

Data are not available.

#### 12.3 Bioaccumulative potential

Data are not available.

#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

#### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq$  0.1%.

#### 12.7 Other adverse effects

Data are not available.

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Waste treatment-relevant information

Recycling/reclamation of other inorganic materials.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

#### **SECTION 14: Transport information**

#### 14.1 UN number

DOT UN 1426



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> IMDG-Code UN 1426 ICAO-TI UN 1426

14.2 UN proper shipping name

DOT Sodium borohydride

IMDG-Code SODIUM BOROHYDRIDE

ICAO-TI Sodium borohydride

14.3 Transport hazard class(es)

DOT 4.3 IMDG-Code 4.3 ICAO-TI 4.3

14.4 Packing group

DOT I I IMDG-Code I ICAO-TI I

**14.5** Environmental hazards non-environmentally hazardous acc. to the dan-

gerous goods regulations

14.6 Special precautions for user

There is no additional information.

#### 14.7 Transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

#### **Information for each of the UN Model Regulations**

### Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information

Particulars in the shipper's declaration UN1426, Sodium borohydride, 4.3, I Danger label(s) 4.3



Special provisions (SP) N40, W31 ERG No 138

#### International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant Danger label(s) 4.3



Special provisions (SP) Excepted quantities (EQ) E0



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Limited quantities (LQ)

EmS  $\underline{F}$ - $\underline{G}$ , S-O

Stowage category E

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

0

Danger label(s) 4.3



Excepted quantities (EQ) E0

### **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations specific for the product in question National regulations (United States)

Toxic Substance Control Act (TSCA)

substance is listed (ACTIVE)

#### Superfund Amendment and Reauthorization Act (SARA TITLE III)

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

not listed

- Specific Toxic Chemical Listings (EPCRA Section 313) not listed

#### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4) not listed

#### **Clean Air Act**

not listed

### **Right to Know Hazardous Substance List**

- Cleaning Product Right to Know Act Substance List (CA-RTK) not listed
- Toxic or Hazardous Substance List (MA-TURA) not listed
- Hazardous Substances List (MN-ERTK) not listed
- Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
Sodium Borodeuteride	16940-66-2		R1

#### <u>Legend</u>

R1 Reactive - First Degree

 Hazardous Substance List (Chapter 323) (PA-RTK) not listed



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> Hazardous Substance List (RI-RTK) not listed

# California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

not listed

#### Industry or sector specific available guidance(s)

#### **NPCA-HMIS® III**

Hazardous Materials Identification System. American Coatings Association.

Category	Rating	Description
Chronic	*	chronic (long-term) health effects may result from repeated overexposure
Health	3	major injury likely unless prompt action is taken and medical treatment is given
Flammability	0	material that will not burn under typical fire conditions
Physical hazard	2	materials that are unstable and may undergo violent chemical changes at normal temperature and pressure with low risk for explosion. Materials may react violently with water or form peroxides upon exposure to air
Personal protection	-	

#### **NFPA® 704**

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard	Description
Flammability	0	material that will not burn under typical fire conditions
Health	3	material that, under emergency conditions, can cause serious or permanent injury
Instability	2	material that readily undergos violent chemical change at elevated temperatures and pressures
Special hazard	₩	material that can form potentially explosive mixtures with water

#### **National inventories**

Country	Inventory	Status
EU	REACH Reg.	substance is listed
US	TSCA	substance is listed (ACTIVE)

Legend

REACH Reg. REACH registered substances
TSCA Toxic Substance Control Act

### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.



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### SECTION 16: Other information, including date of preparation or last revision

#### **Indication of changes (revised safety data sheet)**

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relevant
1.3	Details of the supplier of the safety data sheet: Zeochem AG Joweid 5, CH-8630 Rüti Switzerland	Details of the supplier of the safety data sheet: Zeochem AG Joweid 5, CH-8630 Rüti Switzerland	yes
	Telephone: +41 44 922 93 93 e-Mail: info@zeochem.com / info@zeochem.ch Website: https://www.zeochem.com	Telephone: +41 44 922 93 93 e-Mail: info@zeochem.com Website: https://www.zeochem.com	
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) in a concentration of ≥ 0.1%.	yes
6.2	Environmental precautions: Keep away from drains, surface and ground wa- ter. Retain contaminated washing water and dis- pose of it.	Environmental precautions: Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.	yes
7.1	- Measures to prevent fire as well as aerosol and dust generation: Use local and general ventilation. Take precautionary measures against static discharge. Use only in well-ventilated areas. Ground/bond container and receiving equipment.	- Measures to prevent fire as well as aerosol and dust generation: Use local and general ventilation. Use only in well-ventilated areas.	yes
7.1	Specific notes/details: Dust deposits may accumulate on all deposition surfaces in a technical room.		yes
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)	yes
12.5	Results of PBT and vPvB assessment: Data are not available.	Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB.	yes
12.6	Endocrine disrupting properties: Not listed.	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) in a concentration of ≥ 0.1%.	yes
15.1	Toxic Substance Control Act (TSCA): substance is listed as "ACTIVE"	Toxic Substance Control Act (TSCA): substance is listed (ACTIVE)	yes
15.1		National inventories: change in the listing (table)	yes

### Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).



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### List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H260	In contact with water releases flammable gases, which may ignite spontaneously.
H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H360F	May damage fertility.

#### **Disclaimer**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.