

## Sodium Borodeuteride

According to Regulation (EC) No. 1907/2006 (REACH)

Classification acc. to 29 CFR 1910.1200

Revision: 2025-06-10

Version number: GHS 4.0 Replaces version of: 2023-02-03 (GHS 3)

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

#### 1.1 Product identifier

Identification of the substance CAS number Alternative name(s)

#### Sodium Borodeuteride

15681-89-7

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 development 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 centre						
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: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification acc. to GHS

Section	Hazard class	Category	Hazard class and cat- egory	Hazard state- ment
2.12	substance and mixture which, in contact with water, emits flammable gas	1	Water-react. 1	H260
3.10	acute toxicity (oral)	3	Acute Tox. 3	H301
3.1I	acute toxicity (inhal.)	4	Acute Tox. 4	H332
3.2	skin corrosion/irritation	1C	Skin Corr. 1C	H314
3.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318
3.7	7 reproductive toxicity		Repr. 1B	H360F





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Section	Hazard class	Category	Hazard class and cat- egory	Hazard state- ment
4.1C	hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

For full text of abbreviations: see SECTION 16.

#### 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. Spillage and fire water can cause pollution of watercourses.

#### 2.2 Label elements

Labelling

#### - Signal word danger

#### 2.2.1.2 Pictograms

GHS02, GHS05, GHS06, GHS08	

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					
H412	harmful to aquatic life with long lasting effects					

	Precautionary statements						
P201	obtain special instructions before use						
P231+P232	handle and store contents under inert gas. Protect from moisture						
P260	do not breathe dust/fume/gas/mist/vapours/spray						
P280	wear protective gloves/protective clothing/eye protection/face protection/hearing protection						
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor						
P302+P335+P334	IF ON SKIN: Brush off loose particles from skin. Immerse in cool water						
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower						
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if easy to do. Continue rinsing							
P370+P378	in case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish						





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- Supplemental hazard information EUH014 Reacts violently with water.

#### 2.3 Other hazards

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) at a concentration of  $\ge 0,1\%$ .

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

3.1 Substances	
----------------	--

Name of substance	Sodium Borodeuteride
Identifiers	
CAS No	15681-89-7
EC No	239-764-7
Purity	>98 %

Specific Conc. Limits	M-Factors	ATE	Exposure route
Repr. 1B; H360: C ≥ 3.4 %	-	56.6 <sup>mg</sup> / <sub>kg</sub> >1.3 <sup>mg</sup> / <sub>l</sub> /4h	oral inhalation: dust/mist
Molecular formula	NaBD4		

41.9<sup>g</sup>/mol

Molar mass

#### **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.





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

none

Version number: GHS 4.0

#### **SECTION 5: Firefighting 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. Co-ordinate 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 vapours/dust/spray/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.





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> - 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

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 vapours 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 ADR) 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

Occupational exposure limit values (Workplace Exposure Limits)										
Coun- try	Name of agent	CAS No	Identi- fier		TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [mg/m³]		Source
GB	dust		WEL		10				i	EH40/20 05
GB	dust		WEL		4				r	EH40/20 05

#### <u>Notation</u>

Ceiling-C	ceiling value is a limit value above which exposure should not occur
i	inhalable fraction
r	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)





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#### **Environmental values**

## Relevant PNECs and other threshold levels Endpoint Threshold level Organism Environmental of the second second

Επαροιήτ	Inresnoid level	Organism	Environmental compartment	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.

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

#### 9.1 Information on basic physical and chemical properties

Physical state	solid	
Colour	white - off-white to light grey	
Odour	odourless	





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Melting point/freezing point	>360 °C	
Boiling point or initial boiling point and boiling range	>400 °C at 103 kPa	
Flammability	substance which, in contact with water, emits flammable gases (in accordance with GHS criter-ia)	
Lower and upper explosion limit	not relevant (solid)	
Flash point	not applicable	
Auto-ignition temperature	>400 °C at 101 kPa (ЕСНА)	
Decomposition temperature	not relevant	
pH (value)	not applicable	
Kinematic viscosity	not relevant	
Solubility(ies)	not determined	

#### Partition coefficient

Partition coefficient n-octanol/water (log value)	not relevant (inorganic)
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Vapour pressure	<(	0 Pa at 25 °C

#### Density and/or relative density

Density	1,080 <sup>kg</sup> / <sub>m³</sub> at 20.5 °C
Relative vapour density	not relevant (solid)

#### Particle characteristics

Particle characteristics	no data available
Particle size	175 µm

#### 9.2 **Other information**

Information with regard to physical hazard classes	there is no additional information
Other safety characteristics	there is no additional information



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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). Reactivity with water.

#### 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 GHS**

#### 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 <sup>′ mg</sup> / <sub>kg</sub> >1.3 <sup>mg</sup> / <sub>l</sub> /4h		
Inhalation: dust/mist	>1.3 <sup>mg</sup> / <sub>l</sub> /4h		

#### Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

Causes serious eye damage.

#### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

#### 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



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

#### 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.

#### 11.2 Information on other hazards

There is no additional information.

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

#### 12.1 Toxicity

Harmful to aquatic life with long lasting effects.

- **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) at a concentration of  $\ge 0,1\%$ .

#### 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/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) 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 or ID number

#### ADR/RID

UN 1426

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	IMDG-Code	UN 1426
	ICAO-TI	UN 1426
14.2	UN proper shipping name	
	ADR/RID	SODIUM BOROHYDRIDE
	IMDG-Code	SODIUM BOROHYDRIDE
	ICAO-TI	Sodium borohydride
14.3	Transport hazard class(es)	
	ADR/RID	4.3
	IMDG-Code	4.3
	ICAO-TI	4.3
14.4	Packing group	
	ADR/RID	Ι
	IMDG-Code	Ι
	ICAO-TI	Ι
14.5	Environmental hazards	non-environmentally hazardous acc. to the dan- gerous goods regulations
14.6	Special precautions for user	

#### 14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

#### 14.7 Maritime 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

#### Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) -Additional information

(	Classification code	W2
[	Danger label(s)	4.3
•		
E	Excepted quantities (EQ)	EO
L	imited quantities (LQ)	0
٦	Transport category (TC)	1
٦	Funnel restriction code (TRC)	E
E	Emergency Action Code	4W
	Regulations concerning the International Carria Additional information	age of Dangerous Goods by Rail (RID) -
(	Classification code	W2





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Danger label(s)	4.3	
Excepted quantities (EQ)	EO	
Limited quantities (LQ)	0	
Transport category (TC)	1	
Hazard identification No	X423	
International Maritime Dangerous G	ioods Code (IMDG) - Additional information	
Marine pollutant	-	
Danger label(s)	4.3	
Special provisions (SP)	-	
Excepted quantities (EQ)	EO	
Limited quantities (LQ)	0	
EmS	<u>F-G</u> , S-O	
Stowage category	E	
International Civil Aviation Organiza	ation (ICAO-IATA/DGR) - Additional information	
Danger label(s)	4.3	
Excepted quantities (EQ)	EO	
TION 15: Regulatory information		
Safety, health and environmental re	gulations/legislation specific for the substance or n	nixtu

#### Relevant provisions of the European Union (EU)

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

not listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed





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Water Framework Directive (WFD)

List of pollutants (WFD)			
Name of substance	CAS No	Listed in	Remarks
Sodium Borodeuteride		a)	
Sodium Borodeuteride		a)	

<u>Legend</u>

a) Indicative list of the main pollutants

#### **Regulation on persistent organic pollutants (POP)**

not listed

#### National regulations (GB)

#### List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list not listed

#### **Restrictions according to GB REACH, Annex 17**

Dangerous substances with restrictions (GB REACH, Annex 17)			
Name of substance	Name acc. to inventory	CAS No	No
Sodium Borodeuteride	flammable / pyrophoric		40

#### National inventories

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

<u>Legend</u>

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.

#### **SECTION 16: Other information**

#### 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



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Section	Former entry (text/value)	Actual entry (text/value)	Safety- relevant
	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	
1.4		Poison centre: change in the listing (table)	yes
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at 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 wa- ter. Retain contaminated washing water and dis- pose of it. If substance has entered a water course or sewer, inform the responsible authority.	yes
7.1	<ul> <li>Measures to prevent fire as well as aerosol and dust generation:</li> <li>Use local and general ventilation. Take precau- tionary measures against static discharge. Use only in well-ventilated areas. Ground/bond con- tainer and receiving equipment.</li> </ul>	- 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
9.1	Colour: white - grey	Colour: white - off-white to light grey	yes
9.1	Lower and upper explosion limit: not determined	Lower and upper explosion limit: not relevant (solid)	yes
9.1	Relative vapour density: information on this property is not available	Relative vapour density: not relevant (solid)	yes
9.1		Particle characteristics: no data available	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) at a concentration of ≥ 0,1%.	yes
15.1		National inventories: change in the listing (table)	yes

#### Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). 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.	
H412	Harmful to aquatic life with long lasting effects.	

#### Disclaimer

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

