



SAFETY DATA SHEET

Issue Date 01-Dec-2025 Revision Number 3.06

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name Sodium Tetrahydroborate

Other means of identification

Product Code(s) 199-07962

Recommended use of the chemical and restrictions on use
Recommended Use For research use only.

Uses advised against Seek expert judgment when using for purposes other than those recommended.

Details of the supplier of the safety data sheet

Manufacturer Address Distributor

FUJIFILM Wako Pure Chemical Corporation FUJIFILM Irvine Scientific

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2. HAZARDS IDENTIFICATION

GHS classification

Classification of the substance or mixture

Substances and mixtures which, in contact with water, emit flammable gases

Acute toxicity - Oral

Skin corrosion/irritation

Serious eye damage/eye irritation

Specific target organ toxicity (single exposure)

Category 1

Category 1

Category 1

Category 3

Category 3

Category 3 Respiratory irritation





Hazard statements

H260 - In contact with water releases flammable gases which may ignite spontaneously

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H301 - Toxic if swallowed

H335 - May cause respiratory irritation

Precautionary statements-(Prevention)

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not breathe dust/fume/gas/mist/vapors/spray Wear protective gloves/protective clothing/eye protection/face protection Use only outdoors or in a well-ventilated area Keep away from any possible contact with water, because of violent reaction and possible flash fire Handle under inert gas. Protect from moisture

Precautionary statements-(Response)

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

rinsing Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth Do NOT induce vomiting In case of fire: Use suitable extinguishing media for extinction

Precautionary statements-(Storage)

Store locked up Store in a well-ventilated place. Keep container tightly closed Store in a dry place

Precautionary statements-(Disposal)

Dispose of contents/container to an approved waste disposal plant

Others

Other hazards Not available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula NaBH4

Chemical Name	Molecular weight	CAS RN	Weight-%
Sodium Tetrahydroborate	37.83	16940-66-2	95.0

Impurities and/or Additives: Not applicable

4. FIRST AID MEASURES

First aid measures

General Information Immediate medical attention is required.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper

eyelids. Consult a physician.

Skin contact Wash skin with soap and water.

Inhalation Remove to fresh air.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician

or poison control center immediately. Do not induce vomiting without medical advice.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing media

Carbon dioxide (CO2). Extinguishing powder. Sand.

Unsuitable Extinguishing mediaDo not use straight streams.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Explosion data

Sensitivity to Mechanical none.

Impact

Sensitivity to Static Discharge none.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions, protective

equipment and emergency

procedures

Ensure adequate ventilation, especially in confined areas.

Environmental precautions

Environmental precautions See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Use personal protective equipment as required. Cover powder spill with plastic sheet or

tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface

thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical measures Could form a flammable gas by contact with water and moisture. Make a seal or plug

immediately after use, as it decomposes by moisture.

Protective measures Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Wash contaminated clothing before reuse. Do not breathe

dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage conditions Store away from sunlight in well-ventilated place at room temperature (preferably cool).

Keep container tightly closed. Packed with an inert gas.

Packaging materials Glass.

Incompatible materials Water.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

Exposure limits Not applicable

Personal protective equipment

Respiratory protection Dust mask (JIS T 8151)

Hand protection chemical protective gloves (JIS T 8116)

Eye protection protective eyeglasses or chemical safety goggles (JIS T 8147)

Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form

Color White - nearly white

Appearance crystalline powder - powder

Odor no data available

pH basic (aq.)
Melting point/freezing point >300 °C

Boiling point, initial boiling point and boiling range
Flash point
Evaporation rate:
Flammability (solid, gas):

400 °C (dec.)
no data available
no data available
no data available

Upper/lower flammability or

explosive limits

Upper:no data availableLower:no data availableVapour pressureno data availableVapour densityno data available

Specific Gravity / Relative density 0.998

Solubilities Ethanol : soluble . water : Decomposed gradually .

n-Octanol/water partition coefficient:(log Pow)no data availableAuto-ignition temperature:no data availableDecomposition temperature:no data availableViscosity (coefficient of viscosity)no data availableDynamic viscosityno data availableParticle characteristicsno data available

10. STABILITY AND REACTIVITY

Stability

Chemical stability Hygroscopic. Reacts with water

Reactivity no data available

Hazardous reactions

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight, Moisture

Incompatible materials

Water

Hazardous decomposition products

Boron oxide

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Tetrahydroborate	= 160 mg/kg (Rat)	230 mg/kg (Rabbit)	36 mg/m³ (Rat)

Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	Acute toxicity -inhalation gas-
	information	information	source information

Codings Tatachy duck and to	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
Sodium Tetrahydroborate	classification results.		classification results.
	placomount results.	joidosinoation results.	joiaddineation reduits.
Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
Sodium Tetrahydroborate	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
,	allowed Constitutions and a second con-	alassification requite	alagaification regulto
	classification results.	classification results.	classification results.
Skin irritation/corrosion Chemica			ion source information
	I Name		ion source information
Chemica	I Name	Skin corrosion/irritat	ion source information
Chemica Sodium Tetra	I Name hydroborate	Skin corrosion/irritat Based on the NITE GHS classif	ion source information
Chemica Sodium Tetra Serious eye damage/ irritation	I Name hydroborate I Name	Skin corrosion/irritat Based on the NITE GHS classif	ion source information ication results. itation source information
Chemica Sodium Tetra Serious eye damage/ irritation Chemica	I Name hydroborate I Name hydroborate	Skin corrosion/irritat Based on the NITE GHS classif Serious eye damage/irr	ion source information ication results. itation source information

Sodium Tetrahydroborate Reproductive cell mutagenicity

Chemical Name germ cell mutagencity source information		are con managementy
onomical reality	cell mutagencity source information	Chemical Name
Sodium Tetrahydroborate Based on the NITE GHS classification results.	TE GHS classification results.	Sodium Tetrahydroborate

Based on the NITE GHS classification results.

Carcinogenicity			
Chemical Name	Carcinogenicity source information		
Sodium Tetrahydroborate	Based on the NITE GHS classification results.		

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
Sodium Tetrahydroborate	Based on the NITE GHS classification results.
STOT-single exposure	

STOT -single exposure- source information **Chemical Name** Based on the NITE GHS classification results. Sodium Tetrahydroborate

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information	
Sodium Tetrahydroborate	Based on the NITE GHS classification results.	

Aspiration hazard

Chemical Name	Aspiration Hazard source information
Sodium Tetrahydroborate	Based on the NITE GHS classification results.

12. ECOLOGICAL INFORMATION

Ecotoxicity

no data available

Persistence and degradability

No information available

Bioaccumulative potential

No information available

Mobility

no data available

No information available Mobility in soil No information available Other Data

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastesDisposal should be in accordance with applicable regional, national and local laws and

regulations.

Precautionary including method of Disposal should be in accordance with applicable regional, national and local laws and **disposing contaminated packaging** regulations.

14. TRANSPORT INFORMATION

DOT

UN/ID No UN1426

Proper shipping name: Sodium borohydride

UN classfication 4.3

Subsidiary hazard class

Packing group

Marine pollutant Not applicable

IATA Cargo Aircraft only

UN/ID No UN1426

Proper shipping name: Sodium borohydride

UN classification 4.3

Subsidiary hazard class

Packing group

Environmentally Hazardous Not applicable

Substance

IMDG

UN/ID No UN1426

Proper shipping name: Sodium borohydride

UN classfication 4.3

Subsidiary hazard class

Packing group

Marine pollutant (Sea) Not applicable

15. REGULATORY INFORMATION

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS RN	Weight-%	SARA 313 - Threshold Values %
Sodium Tetrahydroborate - 16940-66-2	16940-66-2	95.0	N/A

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and

Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product does not contain any chemicals regulated by Proposition 65

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sodium Tetrahydroborate	X	N/A	N/A
16940-66-2			

U.S. EPA Label Information

EPA Pesticide Registration NumberNot applicable

16. OTHER INFORMATION

Issue Date 01-Dec-2025

Revision Note

No information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet