

Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Revision Date: 21.11.2022 Version 2

TEKKİM

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

1.1 Product identifier

Catalog No. TK.930102.00000
Product Name Sodium Borohydride
Cas no 16940-66-2

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

1.2.1. Relevant identified uses

Industrial use. Use as a laboratory reagent.

1.2.2. Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Name TEKKİM KİMYA SAN. TİC. LTD. ŞTİ.
Street ORGANİZE SAN. BÖL. MAVİ CAD. 8. SOK. NO :1 NİLÜFER / BURSA
Telephone 0224 243 21 71
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Company Representative Erhan DİLER

1.4 Emergency Telephone Number +90 506 990 36 86

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP)

Substances which, in contact with water, emit flammable gases, Category 1
Acute toxicity, Category 3, Oral
Skin Corrosion, Category 1B
Reproductive toxicity, Category 1B

For the full text of the H and EUH statements referred to in this section, see section 16.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

Hazard pictograms



Signal word (SEA)

DANGER

Hazard Statements (SEA)

H260 In contact with water, emits flammable gases that can ignite spontaneously.
H301 Toxic if swallowed.
H314 Causes severe skin burns and eye damage.
H360 May damage fertility or the unborn child.

Precautionary Statements (SEA)



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Prevention

P201 Read special instructions before use.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Intervention

P301+P330+P331 IF SWALLOWED: Rinse mouth. DO NOT try to vomit.

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

P308+P313 IF exposed and concerned: Get medical advice/attention.

P402+P404 Store in a dry area. Store in a closed container.

SECTION 3: Composition/information on ingredients

Classification according to Regulation (EC) No. 1272/2008 (CLP)

3.1 Maddeler

EC No	241-004-4
Molar mass	37.83 g/mol
Cas No	16940-66-2
Concentration	(<= 100 %)

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Following inhalation

Remove casualty to fresh air and keep warm and at rest..

Following skin contact

Wash with plenty of water. Take off contaminated clothing.

Following eye contact

In case of contact with eyes, rinse immediately with plenty of water and consult an ophthalmologist.

Following ingestion

Give up to two glasses of water. Get medical help immediately. Only in exceptional cases; if medical assistance is not available within one hour, induce vomiting (only if the person is awake and fully conscious). After: activated charcoal (20 - 40g in 10% solution). Do not try to neutralize.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling.

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Dry powder, sand, cement.

Unsuitable extinguishing media

Water, foam, carbon dioxide (CO₂).

5.2 Special hazards arising from the substance or mixture

Flammable. Heavy-than-air vapors may form on the floor surface. Forms explosive mixtures with air at intense temperatures. In case of fire, dangerous flammable gases or vapors may develop. Must not come into contact with: Water. Attention! In contact with water the product is released: Hydrogen.

5.3 Advice for firefighters

Special protective equipment for firefighters

Do not stay in dangerous zone without self-contained breathing apparatus. Keep a safe distance to cut off contact with skin and wear suitable protective clothing.

5.4 Additional information

Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control.



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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Don't breathe vapours, aerosols. Avoid substance contact. Keep away from head and source of ignition. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert..

6.2 Environmental precautions

Do not discharge into sewer. Risk of explosion.

6.3 Methods and material for containment and cleaning up

Close drainage channels. Take up with liquid-absorbent material. Clean the affected area. Avoid generation of dust..

6.4 Reference to other sections

Disposal: see section 13.

6.5 Additional information

Clear spills immediately.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Advices on safe handling

Pay attention to the precautions on the label. Work with the title. Do not inhale the substance. Keep the work area dry. Do not allow the product to c

Advices on general occupational hygiene

Change contaminated clothing. Wash hands after working with substance. It is recommended to use a skin protection cream.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and anything that can cause ignition.

7.3 Specific end uses

There are no other specific uses other than those mentioned in section 1.2.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

More attention should be paid to technical measures against the use of personal protective equipment.

Personal protection equipment

Eye/face protection

Fully fitting safety glasses

Hand protection



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Hand protection

Full contact

Glove material : Nitrile rubber
Glove thickness :0,11 mm
Break through time : >480 minute

Splash contact

Glove material : Nitrile rubber
Glove thickness :0,11 mm
Break through time : >480 minute

The protective gloves to be used must comply with the specifications of directive 89/686/EEC and the related standart EN374.

Other skin protection

Flame reterdant antistatic protective chlothing.

Respiratory protection

Required when dusts occur.

Recommended Filter type: P3 Filter (according to DIN 3181) for solid and liquid particles of toxic and highly toxic elements.

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties

Physical state	Solid
Colour	White
Odour	Characteristic
Odour threshold	No information.
pH value	No information.
Melting point/freezing point	> 360 °C
Freezing point	No information.
Initial boiling point and boiling range	> 400 °C
Flash point	69 °C
Evaporation rate	No information.
Flammability (solid, gas)	> 400 °C
Upper/lower flammability or explosive limits	No information.
Upper/lower flammability or explosive limits	No information.
Vapour pressure	< 1 hPa 25 °C
Vapour density	No information.
Density	1,07 g/cm3 20 °C
Relative density	1,3
Water solubility (g/l)	It decomposes if it comes into contact with water.
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	No information.
Auto-ignition temperature	220 °C
Decomposition temperature	No information.

Viscosity

Kinematic viscosity	Not applicable.
Dynamic viscosity	Not applicable.
Explosive properties	Not classified as explosive.
Oxidising properties	none

SECTION 10: Stability and Reactivity

10.1 Reactivity

Forms explosive mixtures with air at intense temperatures.

10.2 Chemical stability



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Sensitive to moisture.

10.3 Possibility of hazardous reactions

Risk of explosion with water, alcohols.

Phosphoric acid, conc. They give exothermic reaction with sulfuric acid, dimethylformamide.

10.4 Conditions to avoid

Strong heating. Moisture.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

LD50 Rat: 56.57 mg/kg

OECD Guideline 425

Symptoms: If swallowed, there is a risk of perforation of the esophagus and stomach, with severe burning of the mouth and throat.

Acute inhalation toxicity

LC50 Rat: > 1.3 mg/l; 4 hours; dust/mist

(ECHA)

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract.

Acute dermal toxicity

LD50 Rabbit: 4,000 - 8,000 mg/kg

(External product safety sheet)

Skin irritation

Causes burns.

eye irritation

Causes serious eye damage. Risk of corneal clouding.

Risk of blindness!

CMR effects

Teratogenicity (possibility to cause developmental disabilities):

May cause damage to the unborn child.

Reproductive toxicity:

It may harm reproduction.

11.2 Additional information

After absorption: CNS disorders, headache.

Handle in accordance with safety and hygiene rules.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish

LC50 Danio rerio (zebrafish): > 100 mg/l; 96 h

(External product safety sheet)

Toxicity to bacteria

EC50 active waste: > 100 mg/l

OECD Test Guideline OECD 209

12.2 Persistence and degradability

Methods for measuring biological degradation cannot be applied to inorganic substances.

12.3 Bioaccumulative potential



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No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Substance does not meet the criteria for PBT or vPvB.

12.6 Other adverse effects

Forms toxic mixtures in water despite dilution measures. Discharge into the environment should be prevented.

SECTION 13: Disposal considerations

Waste treatment methods

It must be disposed of in accordance with national and local regulations. Do not mix with other products. Uncleaned Treat packages as if it were the product itself ... Waste materials must be disposed of in accordance with national and local regulations.

SECTION 14: Transport information

ADR	IMDG	IATA	ADN	RID
14.1 UN number UN 1426	UN 1426	UN 1426	UN 1426	UN 1426
14.2 UN proper shipping name SODIUM BOROHRIDE	SODIUM BOROHRIDE	SODIUM BOROHRIDE	SODIUM BOROHRIDE	SODIUM BOROHRIDE
14.3 Transport hazard class(es) 4.3	4.3	4.3	4.3	4.3
				
14.4 Packing group I	I	I	I	I
14.5 Environmental hazards YES	YES	YES	YES	YES
No information available.	No information available.	No information available.	No information available.	No information available.

14.6 Special Precautions for User:

No information available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental legislation specific for the substance or mixture

This product safety data sheet complies with the requirements of EU Regulation 1907/2006.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been conducted for this substance.

SECTION 16: Other informations

Full text of H statements



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H360 May damage fertility or the unborn child.

Person Who Prepared the Safety Data Sheet:

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