

SODIUM TRIACETOXY BOROHYDRIDE FOR SYNTHESIS MSDS

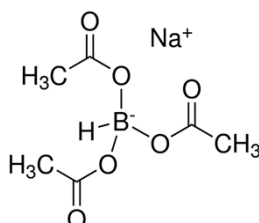
CAS No: 56553-60-7 MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

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

1.1. Product identifier

Product form : Substance
Trade name : Sodium triacetoxy borohydride
CAS No : 56553-60-7
Product code : 6053K
Chemical structure :



Synonyms : STAB

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

LOBA CHEMIE PVT.LTD.
107 Wode House Road, Jehangir Villa, Colaba
400005 Mumbai - INDIA
T +91 22 6663 6663 - F +91 22 6663 6699
info@lobachemie.com - www.lobachemie.com

1.4. Emergency telephone number

Emergency number : + 91 22 6663 6663 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable solids, H228
Category 1
Substances and Mixtures H261
which, in contact with
water, emit flammable
gases, Category 2
Skin corrosion/irritation, H315
Category 2
Specific target organ H335
toxicity — Single

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exposure, Category 3,
Respiratory tract irritation

Full text of classification categories and H statements : see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

F; R14

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)

:



GHS02



GHS07

Signal word (CLP)

: Danger

Hazard statements (CLP)

: H228 - Flammable solid
H261 - In contact with water releases flammable gases
H315 - Causes skin irritation
H335 - May cause respiratory irritation

Precautionary statements (CLP)

: P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P231+P232 - Handle under inert gas. Protect from moisture
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray

EUH phrases

: EUH014 - Reacts violently with water

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Name : SODIUM TRIACETOXY BOROHYDRIDE For Synthesis

CAS No : 56553-60-7

Full text of R- and H-phrases: see section 16

3.2. Mixture

Not applicable

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Take off contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth out with water. If you feel unwell, seek medical advice.

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

Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Dry powder.
Unsuitable extinguishing media	: Do not use extinguishing media containing water.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Flammable solid.
Reactivity in case of fire	: Reacts slowly with water (moisture): release of (highly) toxic gases/vapours.

5.3. Advice for firefighters

Precautionary measures fire	: Keep away from any possible contact with water, because of violent reaction and possible flash fire.
Firefighting instructions	: Do not allow water to enter the vessels, a violent reaction may occur. Do not fight fire when fire reaches explosives.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures	: Evacuate unnecessary personnel.
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6.1.2. For emergency responders

Protective equipment	: Use personal protective equipment as required.
Emergency procedures	: Ventilate area.

6.2. Environmental precautions

Do not allow water (or moist air) contact with this material.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Large spills: scoop solid spill into closing containers. Minimize generation of dust.
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6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Avoid contact with skin and eyes. Do not breathe dust.
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Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in dry protected location to prevent any moisture contact. Store in original container. Store in a dry place.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection : protective gloves
Eye protection : Chemical goggles or safety glasses
Skin and body protection : Wear suitable protective clothing
Respiratory protection : Wear respiratory protection

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Colour : White powder.
Odour : No data available
Odour threshold : No data available
pH : No data available
Relative evaporation rate (butylacetate=1) : No data available
Melting point : 116 - 120 °C
Freezing point : No data available
Boiling point : No data available
Flash point : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : No data available

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Density	: 1.43 g/cm ³ at 20.5 °C
Solubility	: Water: Decomposes in contact with water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Could react violently or explosively on contact with water.

10.2. Chemical stability

Flammable solid.

10.3. Possibility of hazardous reactions

Highly reactive material. Reacts violently with water.

10.4. Conditions to avoid

Moisture.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : May cause respiratory irritation.

Specific target organ toxicity (repeated exposure) : Not classified

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Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Additional information : Do not allow water (or moist air) contact with this material.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR)	: 1409
UN-No. (IMDG)	: 1409
UN-No.(IATA)	: 1409
UN-No.(ADN)	: 1409
UN-No. (RID)	: 1409

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: METAL HYDRIDES, WATER-REACTIVE, N.O.S.
Proper Shipping Name (IMDG)	: METAL HYDRIDES, WATER-REACTIVE, N.O.S.
Proper Shipping Name (IATA)	: METAL HYDRIDES, WATER-REACTIVE, N.O.S.
Proper Shipping Name (ADN)	: METAL HYDRIDES, WATER-REACTIVE, N.O.S.
Proper Shipping Name (RID)	: METAL HYDRIDES, WATER-REACTIVE, N.O.S.
Transport document description (ADR)	: UN 1409 METAL HYDRIDES, WATER-REACTIVE, N.O.S., 4.3, II, (D/E)
Transport document description (IMDG)	: UN 1409 METAL HYDRIDES, WATER-REACTIVE, N.O.S., 4.3, II

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Transport document description (IATA) : UN 1409 METAL HYDRIDES, WATER-REACTIVE, N.O.S., 4.3, II
Transport document description (ADN) : UN 1409 METAL HYDRIDES, WATER-REACTIVE, N.O.S., 4.3, II
Transport document description (RID) : UN 1409 METAL HYDRIDES, WATER-REACTIVE, N.O.S., 4.3, II

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 4.3

Danger labels (ADR) : 4.3

:



IMDG

Transport hazard class(es) (IMDG) : 4.3

Danger labels (IMDG) : 4.3

:



IATA

Transport hazard class(es) (IATA) : 4.3

Hazard labels (IATA) : 4.3

:



ADN

Transport hazard class(es) (ADN) : 4.3

Danger labels (ADN) : 4.3

:



RID

Transport hazard class(es) (RID) : 4.3

Danger labels (RID) : 4.3

:



14.4. Packing group

Packing group (ADR) : II

Packing group (IMDG) : II

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Packing group (IATA)	: II
Packing group (ADN)	: II
Packing group (RID)	: II

14.5. Environmental hazards

Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR)	: W2
Special provision (ADR)	: 274, 508
Limited quantities (ADR)	: 500g
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P410, IBC04
Mixed packing provisions (ADR)	: MP14
Portable tank and bulk container instructions (ADR)	: T3
Portable tank and bulk container special provisions (ADR)	: TP33
Tank code (ADR)	: SGAN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Special provisions for carriage - Packages (ADR)	: V1
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV23
Hazard identification number (Kemler No.)	: 423
Orange plates	: 
Tunnel restriction code (ADR)	: D/E
EAC code	: 4W

- Transport by sea

Special provision (IMDG)	: 274
Limited quantities (IMDG)	: 500 g
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P410
Packing provisions (IMDG)	: PP40
IBC packing instructions (IMDG)	: IBC04
Tank instructions (IMDG)	: T3
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-G
EmS-No. (Spillage)	: S-L
Stowage category (IMDG)	: D
Stowage and handling (IMDG)	: H1
Segregation (IMDG)	: SG35, SG26
MFAG-No	: 138

- Air transport

PCA Excepted quantities (IATA)	: E2
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PCA Limited quantities (IATA)	: Y475
PCA limited quantity max net quantity (IATA)	: 5kg
PCA packing instructions (IATA)	: 484
PCA max net quantity (IATA)	: 15kg
CAO packing instructions (IATA)	: 490
CAO max net quantity (IATA)	: 50kg
ERG code (IATA)	: 4W

- Inland waterway transport

Classification code (ADN)	: W2
Special provisions (ADN)	: 274, 508
Limited quantities (ADN)	: 500 g
Excepted quantities (ADN)	: E2
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Provisions for handling and stowage of the cargo (ADN)	: HA08
Number of blue cones/lights (ADN)	: 0

- Rail transport

Classification code (RID)	: W2
Special provision (RID)	: 274, 508
Limited quantities (RID)	: 500g
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P410, IBC04
Mixed packing provisions (RID)	: MP14
Portable tank and bulk container instructions (RID)	: T3
Portable tank and bulk container special provisions (RID)	: TP33
Tank codes for RID tanks (RID)	: SGAN
Transport category (RID)	: 2
Special provisions for carriage – Packages (RID)	: W1
Special provisions for carriage – Loading and unloading (RID)	: CW23
Colis express (express parcels) (RID)	: CE10
Hazard identification number (RID)	: 423

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Sodium triacetoxo borohydride is not on the REACH Candidate List

Sodium triacetoxo borohydride is not on the REACH Annex XIV List

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15.1.2. National regulations

Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Flam. Sol. 1	Flammable solids, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
Water-react. 2	Substances and Mixtures which, in contact with water, emit flammable gases, Category 2
H228	Flammable solid
H261	In contact with water releases flammable gases
H315	Causes skin irritation
H335	May cause respiratory irritation
EUH014	Reacts violently with water
R14	Reacts violently with water
F	Highly flammable

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product