

SAFETY DATA SHEET

Version: v1

Revision Date: 2025-09-14

Print Date: 2025-09-21

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

1.1 Product identifiers

Product name : TBTO
Product Number : T107353
Brand : aladdin
CAS-No. : 56-35-9

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

Identified uses : Laboratory chemicals, Manufacture of substances.

1.3 Company

Company : ALADDIN SCIENTIFIC CORPORATION
Address : 14078 Meridian Parkway,
Riverside, CA. 92518
Telephone : +1 (833) 552-7181
Fax : no data available

1.4 Emergency telephone number

CHEMTREC®, Inside the USA : 1-800-424-9300
CHEMTREC®, Outside the USA :

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H301	Toxic if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H331	Toxic if inhaled
H372	Causes damage to organs through prolonged or repeated exposure

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H373	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
Precautionary statement(s)	
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash hands [and ...] thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P321	Specific treatment (see ... on this label).
P330	Rinse mouth.
P391	Collect spillage.
P302+P352	IF ON SKIN: wash with plenty of water.
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.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container to an approved waste disposal plant.
P264+P265	Wash hands [and ...] thoroughly after handling. Do not touch eyes.
P301+P316	IF SWALLOWED: Get emergency medical help immediately.
P317	Get emergency medical help.
P337+P317	If eye irritation persists: Get medical help.
P332+P317	If skin irritation occurs: Get medical help.
P316	Get emergency medical help immediately.
P319	Get medical help if you feel unwell.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	: Bis[tri-n-butyltin(IV)]oxide HBD Hexabutyldistannoxane TBTO
Tributyltin(IV) oxide	
Formula	: C ₂₄ H ₅₄ O ₂ Sn ₂
Molecular weight	: 596.1
CAS No.	: 56-35-9
EC-NO.	: 200-268-0

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Component	Classification	Concentration
Component	Classification	Concentration
FBTO	no data available	≥96%

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice
no data available
- If inhaled
no data available
- In case of skin contact
no data available
- In case of eye contact
no data available
- If swallowed
no data available

4.2 Most important symptoms and effects, both acute and delayed

- no data available

4.3 Indication of any immediate medical attention and special treatment needed

- no data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media
no data available
- Unsuitable extinguishing media
no data available

5.2 Special hazards arising from the substance or mixture

- no data available

5.3 Advice for firefighters

- no data available

5.4 Further information

- no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Absorb with inert adsorbent materials and dispose of as hazardous waste. Place in a suitable closed container for processing.

6.2 Environmental precautions

no data available

6.3 Methods and materials for containment and cleaning up

Avoid contact with skin and eyes. Avoid inhaling vapors or mist droplets.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

no data available

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool place. Keep the container sealed and store in a dry and ventilated place. The opened container must be carefully resealed and kept in an upright position to prevent leakage.

7.3 Specific end use(s)

Avoid contact with skin, eyes, and clothing. Wash hands immediately before rest and after using this product.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****8.2 Exposure controls****Appropriate engineering controls**

Operate according to industrial hygiene and safety regulations. Wash hands before rest and at the end of work.

Personal protective equipment**Eye/face protection**

no data available

Skin protection

Gloves must be checked before use. Please use the correct method to remove the gloves (do not touch the outer surface of the gloves) and avoid any skin contact with the product. After use, please handle contaminated gloves carefully in accordance with relevant laws, regulations, and effective laboratory procedures and procedures.

Please clean and blow dry the protective gloves selected for your hands, which must comply with the specifications given in Regulation (EU) 2016/425 and the derived EN 374 standard.

Body Protection

no data available

Respiratory protection

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If the hazard assessment shows the need to use a gas mask with air purification, please use a full face multi-functional gas mask (US) or ABEK type (EN 14387) gas mask cartridge as a backup for engineering control. If a gas mask is the only way to protect, use a full face ventilation gas mask. The use of respirators and parts that have been tested and passed government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

no data available

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

a) Appearance	form: Transparent liquid color: colourless
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	7.5 at 20 °C (68 °F)
e) Melting point/freezing point	no data available
f) Initial boiling point and boiling range	180 °C (356 °F) at 3 hPa (2 mmHg) - lit.
g) Flash point	190 °C (374 °F) - open cup
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	no data available
k) Vapour pressure	< 0.0001 hPa (< 0.0001 mmHg) at 25 °C (77 °F)
l) Vapour density	no data available
m) Relative density	1.17 g/cm ³ at 25 °C (77 °F)
n) Water solubility	no data available
o) Partition coefficient: n-octanol/water	log Pow: 3.2 - 3.8
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties N	no data available
t) Oxidizing properties N	no data available

9.2 Other safety information

no data available

SECTION 10: Stability and reactivity**10.1 Reactivity**

no data available

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

Inhalation can cause poisoning. Causing respiratory irritation.

10.5 Incompatible materials

Accidental ingestion can lead to poisoning.

10.6 Hazardous decomposition products

no data available

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

no data available

Skin corrosion/irritation

If absorbed by the skin, it can be toxic and cause skin irritation.

Serious eye damage/eye irritation

Eye Rabbit Mild Eye Irritation-24h Eye Irritation Test (DraizeTest)

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

There are no components in this product with a content greater than or equal to 0.1% identified by IARC as potential or defined human carcinogens

Carcinogenicity

no data available

Reproductive toxicity

Registration of toxic effects of chemical substances: JN8750000

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

LC50 for fish - Oncorhynchus mykiss -0.007 mg/l -96 h for Daphnia magna and other aquatic invertebrates -0.002 mg/l -48 h for algae EC50- SKELETOMA -<0.001 mg/l -72 h

Additional Information

no data available

SECTION 12: Ecological information**12.1 Toxicity**

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no data available

12.2 Persistence and degradability

Bioaccumulation or bioaccumulation *Oncorhynchus mykiss* (rainbow trout) -14 d-0.21 µ g/l Bioaccumulation factor (BCF): 570 indicates bioaccumulation

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

Highly toxic to aquatic organisms and has long-term sustained effects. Avoid releasing into the environment.

12.6 Other adverse effects

no data available

SECTION 13:

13.1 Disposal considerations

Product

Hand over the remaining and unrecycled solutions to the processing company. Contact a professional organization with a waste disposal license to handle this substance.

Contaminated packaging

Discard as unused product.

SECTION 14: Transport information

DOT (US)

UN number: 2788

Packing group: II

Class: 6.1

Proper shipping name: ORGANOTIN COMPOUND, LIQUID, N.O.S. (Bis(tributyltin) oxide)

Reportable Quantity(RQ): no data available

Poison Inhalation Hazard: yes

Environmental Hazards: yes

IMDG

UN number: 2788

Packing group: II

EMS-No: no

Proper shipping name: ORGANOTIN COMPOUND, LIQUID, N.O.S. (Bis(tributyltin) oxide)

IATA

UN number: 2788

Packing group: II

Class: 6.1

Proper shipping name: ORGANOTIN COMPOUND, LIQUID, N.O.S. (Bis(tributyltin) oxide)

SECTION 15: Regulatory information

Phone: +1 (833) 552-7181 Email: QualityAssurance@aladdinsci.com Website: <https://www.aladdinsci.com/>

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This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

SECTION 16: Other information

Prepared By

Regulatory Affairs

ALADDIN SCIENTIFIC CORPORATION

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SDS sections updated v1

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