CAS-No.: 818-08-6 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

:

 CAS-No.
 : 818-08-6

 Product code
 : 03272

 Formula
 : C8H18OSn

Chemical structure : H₃C CH₃

Synonyms : Dibutyloxotin, Dibutyltin(IV) oxide

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial

For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Labogens Fine Chem Industries 1st Floor , Above Bank of India, Guru Vihar , Rahon Road, Ludhiana Pb. (141007) +91 9316777775, +91 7707855700

sales@labogens.com - www.Labogens.com

1.4. Emergency telephone number

Emergency number : +91 7707855700 (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]

Acute toxicity (oral), H300 Category 1

Serious eye damage/eye H318

irritation, Category 1

Specific target organ H372

toxicity — Repeated exposure, Category 1

Hazardous to the aquatic H411

environment — Chronic Hazard, Category 2

Full text of H statements: see section 16

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Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

T; R25 Xn; R22 Xi; R36/38 N; R51/53

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) :









GHS05

GHS08

GHS09

Signal word (CLP) : Danger

Hazard statements (CLP) : H300 - Fatal if swallowed.

H318 - Causes serious eye damage.

H372 - Causes damage to organs through prolonged or repeated exposure.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P264 - Wash hands, forearms and face thoroughly after handling.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, eye protection, face protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P314 - Get medical advice/attention if you feel unwell.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name : DIBUTYLTIN OXIDE FOR SYNTHESIS

CAS-No. : 818-08-6

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

3.2. Mixtures

Not applicable

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Assure fresh air breathing. If breathing is difficult, remove victim to fresh air and keep

at rest in a position comfortable for breathing.

First-aid measures after skin contact : Wash with plenty of water/.... Wash contaminated clothing before reuse. Get

medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Call a POISON CENTER/doctor if you feel unwell.

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

Symptoms/effects after eye contact : Causes serious eye 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 : Carbon dioxide. Dry powder. Foam. Water spray.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory

protection.

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.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as

possible. On land, sweep or shovel into suitable containers.

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 vapours. Provide good ventilation

in process area to prevent formation of vapour.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving

work.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep container tightly closed.

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 : [In case of inadequate ventilation] wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Molecular mass : 248.92 g/mol 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 : $>= 300 \, ^{\circ}\text{C}$

Freezing point : No data available

Boiling point : No data available

Flash point : No data available

Auto-ignition temperature : 279 °C

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

Density : 1.6 g/cm³

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Solubility : No data available

Log Pow : 5.33

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

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Air contact. Direct sunlight. 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 : Oral: Fatal if swallowed.

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified STOT-single exposure : Not classified

STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

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Potential adverse human health effects

and symptoms

: Harmful if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water

: Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

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Persistence and degradability May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

DIBUTYLTIN OXIDE FOR SYNTHESIS (818-08-6)	
Log Pow	5.33

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

Product/Packaging disposal recommendations

: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14: Transport information

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

14.1. UN number

UN-No. (ADR) : 3146 UN-No. (IMDG) : 3146 UN-No. (IATA) : 3146 UN-No. (ADN) : 3146 UN-No. (RID) : 3146

14.2. UN proper shipping name

Proper Shipping Name (ADR) : ORGANOTIN COMPOUND, SOLID, N.O.S.
Proper Shipping Name (IMDG) : ORGANOTIN COMPOUND, SOLID, N.O.S.

Proper Shipping Name (IATA) : Organotin compound, solid, n.o.s.

Proper Shipping Name (ADN) : ORGANOTIN COMPOUND, SOLID, N.O.S.

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Proper Shipping Name (RID) : ORGANOTIN COMPOUND, SOLID, N.O.S.

Transport document description (ADR) : UN 3146 ORGANOTIN COMPOUND, SOLID, N.O.S., 6.1, II, (D/E),

ENVIRONMENTALLY HAZARDOUS

Transport document description (IMDG) : UN 3146 ORGANOTIN COMPOUND, SOLID, N.O.S., 6.1, II, MARINE

POLLUTANT/ENVIRONMENTALLY HAZARDOUS

Transport document description (IATA) : UN 3146 Organotin compound, solid, n.o.s., 6.1, II, ENVIRONMENTALLY

HAZARDOUS

Transport document description (ADN) : UN 3146 ORGANOTIN COMPOUND, SOLID, N.O.S., 6.1, II, ENVIRONMENTALLY

HAZARDOUS

Transport document description (RID) : UN 3146 ORGANOTIN COMPOUND, SOLID, N.O.S., 6.1, II, ENVIRONMENTALLY

HAZARDOUS

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 6.1 Danger labels (ADR) : 6.1



IMDG

Transport hazard class(es) (IMDG) : 6.1 Danger labels (IMDG) : 6.1



IATA

Transport hazard class(es) (IATA) : 6.1 Hazard labels (IATA) : 6.1



ADN

Transport hazard class(es) (ADN) : 6.1 Danger labels (ADN) : 6.1



RID

Transport hazard class(es) (RID) : 6.1 Danger labels (RID) : 6.1

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14.4. **Packing group**

Packing group (ADR) : 11 : II Packing group (IMDG) Packing group (IATA) : II : 11 Packing group (ADN) Packing group (RID) : II

Environmental hazards 14.5.

: Yes Dangerous for the environment Marine pollutant : Yes

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : T3 Special provisions (ADR) : 43, 274 Limited quantities (ADR) : 500g Excepted quantities (ADR) : E4

Packing instructions (ADR) : P002, IBC08

Special packing provisions (ADR) : B4 : MP10 Mixed packing provisions (ADR) Portable tank and bulk container : T3

instructions (ADR)

Portable tank and bulk container special : TP33

provisions (ADR)

Tank code (ADR) : SGAH, L4BH Tank special provisions (ADR) : TU15, TE19

Vehicle for tank carriage : AT Transport category (ADR) : 2 Special provisions for carriage - Packages : V11

(ADR)

Special provisions for carriage - Loading, unloading and handling (ADR)

: CV13, CV28

Special provisions for carriage - Operation : S9, S19

(ADR)

Hazard identification number (Kemler No.) : 60

Orange plates

60 3146

Tunnel restriction code (ADR) : D/E EAC code : 2X

- Transport by sea

Special provisions (IMDG) : 43, 274 Packing instructions (IMDG) : P002 IBC packing instructions (IMDG) : IBC08 IBC special provisions (IMDG) : B21, B4 Tank instructions (IMDG) : T3

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Tank special provisions (IMDG) : TP33

EmS-No. (Fire) : F-A

EmS-No. (Spillage) : S-A

Stowage category (IMDG) : A

Stowage and handling (IMDG) : SW2

Properties and observations (IMDG) : A wide variety of toxic solids. Toxic if swallowed, by skin contact or by inhalation.

MFAG-No : 153

- Air transport

PCA Excepted quantities (IATA) : E4
PCA Limited quantities (IATA) : Y644
PCA limited quantity max net quantity : 1kg

(IATA)

PCA packing instructions (IATA) : 669
PCA max net quantity (IATA) : 25kg
CAO packing instructions (IATA) : 676
CAO max net quantity (IATA) : 100kg
Special provisions (IATA) : A3, A4, A6

ERG code (IATA) : 6L

- Inland waterway transport

Classification code (ADN) : T3

Special provisions (ADN) : 43, 274, 802
Limited quantities (ADN) : 500 g
Excepted quantities (ADN) : E4
Equipment required (ADN) : PP, EP
Number of blue cones/lights (ADN) : 2

- Rail transport

Classification code (RID) : T3

Special provisions (RID) : 43, 274

Excepted quantities (RID) : E4

Packing instructions (RID) : P002, IBC08

Special packing provisions (RID) : B4

Mixed packing provisions (RID) : MP10

Portable tank and bulk container : T3

instructions (RID)

Portable tank and bulk container special

provisions (RID)

: TP33

Tank codes for RID tanks (RID) : SGAH, L4BH

Special provisions for RID tanks (RID) : TU15
Transport category (RID) : 2
Special provisions for carriage – Packages : W11

(RID)

Special provisions for carriage - Loading, : CW13, CW28, CW31

unloading and handling (RID)

Colis express (express parcels) (RID) : CE9
Hazard identification number (RID) : 60

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

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No REACH Annex XVII restrictions

DIBUTYLTIN OXIDE FOR SYNTHESIS is not on the REACH Candidate List DIBUTYLTIN OXIDE FOR SYNTHESIS is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

Reference to AwSV : Water hazard class (WGK) 3, severe hazard to water (Classification according to

AwSV; ID No. 7696)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed SZW-lijst van mutagene stoffen : The substance is not listed NIET-limitatieve lijst van voor de : The substance is not listed

voortplanting giftige stoffen - Borstvoeding

NIET-limitatieve lijst van voor de voortplanting giftige stoffen -

Vruchtbaarheid

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen - Ontwikkeling

: The substance is not listed

: The substance is not listed

Denmark

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

Pregnant/breastfeeding women working with the product must not be in direct

contact with the product

Chemical safety assessment

No additional information available

SECTION 16: Other information

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

Acute Tox. 1 (Oral)	Acute toxicity (oral), Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
H300	Fatal if swallowed.
H318	Causes serious eye damage.
H372	Causes damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

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R22	Harmful if swallowed
R25	Toxic if swallowed
R36/38	Irritating to eyes and skin
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
N	Dangerous for the environment
Т	Toxic
Xi	Irritant
Xn	Harmful

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

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