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DI-BUTYL TIN OXIDE CAS NO 818-08-6

MATERIAL SAFETY DATA SHEET SDS/MSDS

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

1.1	Product identifiers Product name	:	Di-Butyl Tin Oxide
	CAS-No.	:	818-08-6
1.2	Relevant identified uses of the substance or mixture and uses advised against		
	Identified uses	:	Laboratory chemicals, Industrial & for professional use only.
1.3	Details of the supplier of the safety data sheet		
	Company	:	Central Drug House (P) Ltd 7/28 Vardaan House Ansari Road Daryaganj New Delhi -110002 INDIA
	Telephone Email	:	+91 11 49404040 care@cdhfinechemical.com

1.4 Emergency telephone number

Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 3), H301 Skin irritation (Category 2), H315 Serious eye damage (Category 1), H318 Skin sensitisation (Category 1), H317 Germ cell mutagenicity (Category 2), H341 Reproductive toxicity (Category 1B), H360 Specific target organ toxicity - single exposure (Category 1), thymus gland, H370 Specific target organ toxicity - repeated exposure, Oral (Category 1), thymus gland, H372 Chronic aquatic toxicity (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 Pictogram



Signal word Hazard statement(s) H301 H315

Toxic if swallowed. Causes skin irritation.

H317 H318 H341 H360 H370 H372 H411	May cause an allergic skin reaction. Causes serious eye damage. Suspected of causing genetic defects. May damage fertility or the unborn child. Causes damage to organs (thymus gland). Causes damage to organs (thymus gland) through prolonged or repeated exposure if swallowed. Toxic to aquatic life with long lasting effects.
Precautionary statement(s) P201 P260 P273 P280 P301 + P310 P305 + P351 + P338	Obtain special instructions before use. Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Avoid release to the environment. Wear protective gloves/ eye protection/ face protection. IF SW ALLOW ED: Immediately call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Supplemental Hazard	none

Statements

Restricted to professional users.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1	Substances Synonyms	:	Dibutyloxotin
	Formula Molecular weight CAS-No. EC-No.	:	C ₈ H ₁₈ OSn 248.92 g/mol 818-08-6 212-449-1

Hazardous ingredients according to Regulation (EC) No 1272/2008 Component Classification

Dibutyltin oxido

Dibutyitin oxide		
CAS-No.	818-08-6	Acute Tox. 3; Skin Irrit. 2; Eye <= 100 %
EC-No.	212-449-1	Dam. 1; Skin Sens. 1; Muta. 2;
		Repr. 1B; STOT SE 1; STOT
		RE 1; Aquatic Chronic 2;
		H301, H315, H318, H317,
		H341, H360, H370, H372,
		H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 **Description of first aid measures**

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Concentration

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

- **4.2** Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
- **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 Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- 5.2 Special hazards arising from the substance or mixture Carbon oxides, Tin/tin oxides
- 5.3 Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information

No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

- 6.2 Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
- 6.3 Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Colour: white
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	Melting point/range: >= 300 °C
f)	Initial boiling point and boiling range	161.9 °C
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	The product is not flammable Flammability (solids)
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
I)	Vapour density	No data available
m)	Relative density	1.580 g/cm3
n)	Water solubility	No data available
o)	Partition coefficient: n- octanol/water	log Pow: 5.33
p)	Auto-ignition temperature	143 - 153 °C
q)	Decomposition temperature	> 161.9 °C -

- r) Viscosity No data available
- s) Explosive properties No data available
- t) Oxidizing properties 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** No data available
- **10.5** Incompatible materials Strong oxidizing agents

Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides, Tin/tin oxides Other decomposition products - No data available In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - male and female - 172 mg/kg(Dibutyltin oxide) (OECD Test Guideline 401) LD50 Dermal - Rat - male and female - > 2,000 mg/kg(Dibutyltin oxide) (OECD Test Guideline 402)

Skin corrosion/irritation

Skin - Rabbit(Dibutyltin oxide) Result: Irritating to skin. - 4 h (OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes - Rabbit(Dibutyltin oxide) Result: Corrosive (OECD Test Guideline 405)

Respiratory or skin sensitisation No data available(Dibutyltin oxide)

Germ cell mutagenicity

In vitro tests showed mutagenic effects(Dibutyltin oxide) Ames test(Dibutyltin oxide) S. typhimurium Result: negative

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

Presumed human reproductive toxicant(Dibutyltin oxide)

Specific target organ toxicity - single exposure No data available(Dibutyltin oxide)

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard No data available(Dibutyltin oxide)

Additional Information

Repeated dose toxicity - Liver: Other changes. Gastrointestinal: Changes in structure or function of exocrine pancreas.(Dibutyltin oxide) **RTECS:** Not available

Cough, Shortness of breath, Headache, Nausea, Vomiting(Dibutyltin oxide)

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 2 mg/l - 48 h(Dibutyltin oxide) (OECD Test Guideline 202)
Toxicity to algae	EC50 - Desmodesmus subspicatus (Scenedesmus subspicatus) - >= 1.6 mg/l $$ -
	72 h(Dibutyltin oxide) (OECD Test Guideline 201)
Toxicity to bacteria	Respiration inhibition EC50 - Sludge Treatment - > 1,000 mg/l - 3 h(Dibutyltin oxide) (OECD Test Guideline 209)

12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d(Dibutyltin oxide) Result: 0 % - Not readily biodegradable. (OECD Test Guideline 301F)

- 12.3 **Bioaccumulative potential** No data available
- 12.4 Mobility in soil No data available(Dibutyltin oxide)

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Toxic to aquatic life with long lasting effects.

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Dissolve or mix the material with a combustible solvent and burn in a chem scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1	UN numbe ADR/RID:		IMDG: 3146	IATA: 3146
14.2		ORGANOTIN COMP	OUND, SOLID, N.O.S. (Dibutyltin ox OUND, SOLID, N.O.S. (Dibutyltin ox solid, n.o.s. (Dibutyltin oxide)	,
14.3	Transport ADR/RID:	hazard class(es) 6.1	IMDG: 6.1	IATA: 6.1
14.4	Packaging ADR/RID:		IMDG: III	IATA: III
14.5	Environmental hazards ADR/RID: no		IMDG Marine pollutant: yes	IATA: no
14.6	Special pr No data av	ecautions for user railable		

SECTION 15: Regulatory information

- **15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
- **15.2 Chemical safety assessment** For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H301	Toxic if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H341	Suspected of causing genetic defects.
H360	May damage fertility or the unborn child.
H370	Causes damage to organs (/\$/*_ORGAN_SINGLE/\$/).
H372	Causes damage to organs through prolonged or repeated exposure if swallowed.
H411	Toxic to aquatic life with long lasting effects.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.