

Website:- chemicalbull.com

**MATERIAL SAFETY DATA SHEET** 

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

1.1 Product identifiers Product name

# Dibutyltin Oxide

CAS-No. : 818-08-6

**1.2 Relevant identified uses of the substance or mixture and uses advised against** Identified uses : Laboratory chemicals, Manufacture of substances

# **1.3 Details of the supplier of the safety data sheet**

Company

:ChemicalBull Pvt Ltd 123/124, Panchratna, G.I.D.C Char Rasta,Vapi-396195 Dist, Valsad, Gujarat, INDIA Website:- chemicalbull.com

Email:- info@chemicalbull.com

# 1.4 Emergency telephone

Emergency Phone : +91 9696960250

# **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

**Classification according to Regulation** Acute toxicity, Oral Skin irritation Serious eye damage Skin sensitization Germ cell mutagenicity Reproductive toxicity Specific target organ toxicity - single exposure, thymus gland, Specific target organ toxicity - repeated exposure, Oral, thymus gland, Long-term (chronic) aquatic hazard

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

# 2.2 Label elements

# Labelling according Regulation

Labelling according Reg Pictogram	Julation
Signal word	Danger
Hazard statement(s)	
H301 H315 H317 H318 H341 H360 H370 H372	Toxic if swallowed. Causes skin irritation. 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.
H411	Toxic to aquatic life with long lasting effects.
Precautionary statement(s P201 P273 P280 P301 + P310 + P330 P302 + P352 P305 + P351 + P338 + P310	<ul> <li>Obtain special instructions before use. Avoid release to the environment. Wear protective gloves/ eye protection/ face protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.</li> <li>IF ON SKIN: Wash with plenty of water.</li> <li>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue</li> </ul>
	rinsing. Immediately call a POISON CENTER/ doctor.
Supplemental Hazard	none

Statements

# Reduced Labeling (<= 125 ml)

Reduced Labeling (<= 125 ml) Pictogram			
Signal word	Danger		
Hazard statement(s)	Toxic if swallowed.		
H301	Causes serious eye damage.		
H318	May cause an allergic skin reaction.		
H317	Suspected of causing genetic defects.		
H341	May damage fertility or the unborn child.		
H360	Causes damage to organs through prolonged or repeated		
H372	exposure if swallowed.		
H370	Causes damage to organs.		
Precautionary statement(s)	Obtain special instructions before use.		
P201	Wear protective gloves/ eye protection/ face protection.		
P280	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.		
P301 + P310 + P330	Rinse mouth.		
P302 + P352	IF ON SKIN: Wash with plenty of water.		
P305 + P351 + P338 +	IF IN EYES: Rinse cautiously with water for several minutes.		

P310

Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

H370, H372, H411

Supplemental Hazard none Statements

#### 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	<b>Substances</b> Synonyms	: Dibutyloxotin		
	Molecular weight CAS-No.	: 248.94 g/mol : 818-08-6		
	Component		Classification	Concentration
	dibutyltin oxide			
	CAS-No.	818-08-6	Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; Skin Sens. 1; Muta. 2; Repr. 1B; STOT SE 1; STOT RE 1; Aquatic Chronic 2; H302, H315, H318, H317, H341, H360,	<= 100 %

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 material 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.

### 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 vapors, 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

#### Advice on safe handling

Avoid exposure - obtain special instructions before use.

#### Advice on safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

#### Advice on protection against fire and explosion

Provide appropriate exhaust ventilation at places where dust is formed.

#### **Hygiene measures**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. For precautions see section 2.2.

#### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

#### Storage class

Storage class Non-combustible, acute toxic hazardous materials or hazardous materials causing chronic effects

**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

Ingredients with workplace control parameters

8.2 Exposure controls

#### Personal protective equipment

#### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards

#### 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.

The selected protective gloves have to satisfy the specifications of Regulation

Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min

Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min

If used in solution, or mixed with other substances, and under conditions which differ from, contact the supplier of the approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienistand safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### **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 a fullface particle respirator type N100 respirator cartridges as backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards

**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 Color: white
	b)	Odor	No data available
	c)	Odor 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)	Vapor pressure	No data available
	I)	Vapor density	No data available
	m)	Density	1,580 g/cm3
		Relative density	No data available
	n)	Water solubility	No data available
	0)	Partition coefficient: n-octanol/water	log Pow: 5,33
	p)	Autoignition temperature	143 - 153 °C
	q)	Decomposition temperature	> 161,9 °C -
	r)	Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: No data available
	s)	Explosive 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
- **10.6 Hazardous decomposition products** In the event of fire: see section 5

#### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - female - 500 mg/kg (OECD Test Guideline 423) Symptoms: Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract. LC50 Inhalation - Rat - 4 h - > 2.000 mg/l Remarks: (External MSDS) Symptoms: mucosal irritations, Cough, Shortness of breath LD50 Dermal - Rat - male and female - > 2.000 mg/kg (OECD Test Guideline 402)

# Skin corrosion/irritation

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

#### Serious eye damage/eye irritation

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

**Respiratory or skin sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity** In vitro tests showed mutagenic effects Test Type: Ames test Test system: S. typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: Chromosome aberration test in vitro Test system: lymphocyte Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: positive Test Type: gene mutation test Test system: Chinese hamster lung cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative

# Carcinogenicity

No data available

#### **Reproductive toxicity**

Presumed human reproductive toxicant

**Specific target organ toxicity - single exposure** Causes damage to organs. - thymus

# Specific target organ toxicity - repeated exposure

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

Aspiration hazard

No data available

# **11.2 Additional Information**

Repeated dose toxicity - Liver: Other changes. Gastrointestinal: Changes in structure or function of exocrine pancreas.

Cough, Shortness of breath, Headache, Nausea, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

The following applies to organic tin compounds in general: systemic effect: CNS disorders (spasms, narcosis, respiratory paralysis).

Further data:

Other dangerous properties cannot be excluded.

Handle in accordance with good industrial hygiene and safety practice.

#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

No data available	
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 2 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae	ErC50 - Desmodesmus subspicatus (green algae) - >= 1,6 mg/l - 72 h

(OECD Test Guideline 201)

Toxicity to bacteria	static test EC50 - activated sludge - > 1.000 mg/l - 3 h
	(OECD Test Guideline 209)

# 12.2 Persistence and degradability

Biodegradability

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

- 12.3 Bioaccumulative potential No data available
- **12.4 Mobility in soil** No data available

## 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 Endocrine disrupting properties** No data available

### 12.7 Other adverse effects

Toxic to aquatic life with long lasting effects. Discharge into the environment must be avoided.

# SECTION 13: Disposal considerations

#### **13.1 Waste treatment methods**

#### Product

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and 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	14.1 UN number				
	ADR/RID:	3146	IMDG: 3146	IATA: 3146	
14.2		ORGANOTIN COMP	DUND, SOLID, N.O.S. (dibutyltir OUND, SOLID, N.O.S. (dibutylti Id, solid, n.o.s. (dibutyltin oxide	n oxide)	
14.3	<b>Transpor</b> ADR/RID:	t hazard class(es) 6.1	IMDG: 6.1	IATA: 6.1	
14.4	Packagin ADR/RID:		IMDG: III	IATA: III	

14.5	<b>Environmental hazards</b> ADR/RID: no	IMDG Marine polluta	ant: yes I	ATA: no
14.6	<b>Special precautions for use</b> No data available	r		
SECT	ION 15: Regulatory informa	tion		
	Safety, health and environm tance or mixture This material safety data shee	_	-	-
	Authorisations and/or rest REACH - Restrictions on the m placing on the market and use dangerous substances, prepar (Annex XVII)	anufacture, e of certain	: dibutyltin	oxide
	National legislation Seveso of the European Parlian Council on the control of majo involving dangerous substance	r-accident hazards	: ACUTE TO	XIC
			: ENVIRONM	IENTAL HAZARDS
15.2	<b>Chemical Safety Assessmen</b> For this product a chemical sa		not carried o	out

#### **SECTION 16: Other information**

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

H301	Toxic if swallowed.
H302	Harmful 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.

#### **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. ChemicalBull Pvt Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

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