

OXFORD LAB FINE CHEM LLP

ISO 9001-2008 Certified Company

Regd Office: Unit no 12, 1st Floor,
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Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

DI-n-BUTYL TIN MALEATE

(D.B.T.M.)

MSDS CAS: 78-04-6

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: DI-n-BUTYL TIN MALEATE

CAS#: 78-04-6

Chemical Name: DI-n-BUTYL TIN MALEATE

Chemical Formula: C₁₂H₂₀O₄Sn

Brand : OXFORD

Details Of The Supplier Of The Safety Data Sheet :

Company identification: OXFORD LAB FINE CHEM LLP
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,
Navghar, Vasai (East). Palghar - 401 210.
Mumbai, Maharashtra, INDIA.
Tel: 91-250-2390989
Tel/Fax: 91-250-2390032

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Dibutyltin maleate	78-04-6	100 %

Toxicological Data on Ingredients: Not available.

Section 3: Hazards Identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 4), H302

Acute toxicity, Inhalation (Category 2), H330

Skin corrosion (Category 1B), H314

Skin sensitisation (Category 1), H317

Germ cell mutagenicity (Category 2), H341

Reproductive toxicity (Category 1B), H360

Specific target organ toxicity - repeated exposure (Category 1), H372

Chronic aquatic toxicity (Category 2), H411

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. Rapidly absorbed through skin.

Section 4: First Aid Measures

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

Skin Contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

Serious Skin Contact: Not available.

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

Serious Inhalation: Not available.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Serious Ingestion: Not available.

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Section 5: Fire and Explosion Data

Extinguishing media Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture: Carbon oxides, Tin/tin oxides

Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Further information: No data available

Section 6: Accidental Release Measures

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.

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.

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.

Section 7: Handling and Storage

Precautions for safe handling: Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Avoid exposure - obtain special instructions before use.

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

Section 8: Exposure Controls/Personal Protection

Control parameters:

Exposure controls: Appropriate engineering controls: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Section 8: Exposure Controls/Personal Protection (Continued)

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 (US) or type ABEK (EN 14387) respirator cartridges as a backup to enginee protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9: Physical and Chemical Properties

Physical state and appearance	: Powder.
Odor	: Not available.
Taste	: Not available.
Molecular Weight	: Not available.
Color	: White.
pH (1% soln/water)	: Not available.
Boiling Point	: 260 °C
Melting Point	: 135 - 140 °C - lit.
Critical Temperature	: Not available.
Specific Gravity	: Not available.
Vapor Pressure	: Not available.
Vapor Density	: Not available.
Volatility	: Not available.
Odor Threshold	: Not available.

Section 9: Physical and Chemical Properties (Continued)

Water/Oil Dist. Coeff.	: Not available.
Ionicity (in Water)	: Not available.
Dispersion Properties	: Not available.
Solubility	: 0.01 g/l at 20 °C - OECD Test Guideline 105

Section 10: Stability and Reactivity Data

Stability	: Stable under recommended storage conditions.
Instability Temperature	: Not available.
Conditions of Instability	: Light.
Incompatible materials	: Strong oxidizing agents
Corrosivity	: Not available.
Special Remarks on Reactivity	: Not available.
Special Remarks on Corrosivity	: Not available.
Hazardous decomposition products	: Hazardous decomposition products formed under fire
conditions. - Carbon oxides, Tin/tin oxides	
Other decomposition products - No data available	
Polymerization	: Will not occur.

Section 11: Toxicological Information

Information on toxicological effects:

Acute toxicity:

LD50 Oral - Rat - male - 422 mg/kg(Dibutyltin maleate)

(OECD Test Guideline 401)

LC50 Inhalation - Rat - male - 4 h - 313 mg/m³(Dibutyltin maleate)

LD50 Dermal - Rat - male and female - > 2,000 mg/kg(Dibutyltin maleate)

(OECD Test Guideline 402)

Skin corrosion/irritation: Skin - Rat(Dibutyltin maleate)

Result: Causes burns.

(OECD Test Guideline 402)

Serious eye damage/eye irritation: Eyes - Rabbit(Dibutyltin maleate)

Result: Risk of serious damage to eyes.

(OECD Test Guideline 405)

Section 11: Toxicological Information (Continued)

Respiratory or skin sensitization: No data available(Dibutyltin maleate)

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.

Section 12: Ecological Information

Toxicity:

Toxicity to fish: semi-static test LC50 - Danio rerio (zebra fish) - > 5.7 mg/l - 96 h (Dibutyltin maleate) (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates: static test EC50 - Daphnia magna (Water flea) - 0.21 mg/l (Dibutyltin maleate) (OECD Test Guideline 202)

Toxicity to algae: static test EC50 - Desmodesmus subspicatus (Scenedesmus subspicatus) mg/l - 72 h(Dibutyltin maleate)

Persistence and degradability:

Biodegradability: aerobic - Exposure time 28 d(Dibutyltin maleate)

Result: 3.2 % - Not readily biodegradable.

Bioaccumulative potential: No data available.

Mobility in soil: No data available (Dibutyltin maleate)

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.

Section 13: Disposal Considerations

Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Contaminated packaging: Dispose of as unused product.

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Section 14: Transport Information

Land transport (ADR-RID)

Proper shipping name : ORGANOTIN COMPOUND, SOLID, N.O.S. (Dibutyltin maleate)

UN N° : 3146

ADR - Class : 6.1

Sea transport (IMDG) [English only]

Proper shipping name : ORGANOTIN COMPOUND, SOLID, N.O.S. (Dibutyltin maleate)

UN N° : 3146

IMO-IMDG - Class or division : 6.1

IMO-IMDG - Packing group : II

Air transport (ICAO-IATA) [English only]

Proper shipping name : ORGANOTIN COMPOUND, SOLID, N.O.S. (Dibutyltin maleate)

UN N° : 3146

IATA - Class or division : 6.1

IATA - Packing group : II

Section 15: Other Regulatory Information

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.

Chemical safety assessment

For this product a chemical safety assessment was not carried out

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Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

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