

# Dibutyltin Dilaurate

## Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Product name: Dibutyltin Dilaurate  
 CAS Number: 77-58-7  
 EC Number: 201-039-8

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

Identified use: Industrial use, catalyst

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

**Company name:** East Harbour Group Ltd  
 20 Clough Road, Severalls Industrial Park  
 Colchester, Essex, CO4 9QS  
 United Kingdom

**Telephone:** +44 (0) 333 242 0100  
**Email:** [info@eastharbourgroup.com](mailto:info@eastharbourgroup.com)

### 1.4 Emergency telephone number

**Emergency telephone:** 0800 246 1274

## Section 2: Hazardous identification

### 2.1 Classification of the substance or mixture

Skin corrosion/irritation, Category 1C H314  
 Skin sensitisation, Category 1 H317  
 Germ cell mutagenicity, Category 2 H341  
 Reproductive toxicity, Category 1A H360FD  
 Specific target organ toxicity — single exposure, Category 1 H370  
 Specific target organ toxicity — Repeated exposure, Category 1 H372  
 Hazardous to the aquatic environment — Acute Hazard, Category 1 H400  
 Hazardous to the aquatic environment — Chronic Hazard, Category 1 H410

### 2.2 Label elements

Signal word (CLP): Danger

#### Hazard statements (CLP):

H314 - Causes severe skin burns and eye damage.  
 H317 - May cause an allergic skin reaction.  
 H341 - Suspected of causing genetic defects.  
 H360FD - May damage fertility. May damage the unborn child.  
 H370 - Causes damage to organs.  
 H372 - Causes damage to organs through prolonged or repeated exposure.  
 H410 - Very toxic to aquatic life with long lasting effects.

#### Precautionary statements (CLP):

P201 - Obtain special instructions before use.

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P260 - Do not breathe dust, fume, gas, mist, vapours, spray.

P273 - Avoid release to the environment.

P280 - Wear eye protection, protective clothing, protective gloves.

P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor, a POISON CENTER.

P501 - Dispose of contents and container to an approved waste disposal plant.

P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a doctor, a POISON CENTER.

## 2.3 Other hazards

Suspected of causing genetic defects. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Causes damage to organs. Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Very toxic to aquatic life with long lasting effects.

## Section 3: Composition/information on ingredients

### 3.2 Mixtures

CAS #	Content (W/W)	Ingredients
77-58-7	>=99.1%	Dibutyltin Dilaurate

Chemical name: Dibutyltin Dilaurate

Common name / synonyms: Dibutyltin Dilaurate

## Section 4: First aid measures

### 4.1 Description of first aid measures

**In case of skin contact:** After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Call a physician immediately.

**In case of eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

**If swallowed:** Rinse mouth out with water. Do not induce vomiting without medical advice. Immediately call a POISON CENTER/doctor.

**If inhaled:** Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

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

**Symptoms/effects after inhalation:** No effects known.

**Symptoms/effects after skin contact:** Caustic burns/corrosion of the skin. Burns. May cause an allergic skin reaction.

**Symptoms/effects after eye contact:** Inflammation/damage of the eye tissue. Corrosion of the eye tissue. Serious damage to eyes.

**Symptoms/effects after ingestion:** Burns

### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically

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## Section 5: Fire-fighting measures

### 5.1 Fire Fighting Media and Instructions:

**Suitable extinguishing media:** Water spray. Polyvalent foam. Dry chemical powder. Carbon dioxide. Water spray. Dry powder. Foam. Carbon dioxide.

**Unsuitable extinguishing media:** no data available

### 5.2 Special hazards arising from the substance or mixture

**Fire hazard:** Combustible. Temperature above flashpoint: higher fire/explosion hazard.

**Explosion hazard:** No direct explosion hazard.

**Hazardous decomposition products in case of fire:** Carbon dioxide. Carbon monoxide.

### 5.3 Advice for firefighters

**Precautionary measures fire:** Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation.

**Exposure to fire/heat:** seal off low-lying areas. Exposure to fire/heat: have neighbourhood close doors and windows.

**Firefighting instructions:** Cool tanks/drums with water spray/remove them into safety. Dilute toxic gases with water spray. Take account of toxic fire-fighting water. Use water moderately and if possible, collect or contain it.

**Protection during firefighting:** Heat/fire exposure: compressed air/oxygen apparatus. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## Section 6: Accidental release measures

### 6.1 Personal precautions, protective equipment, and emergency procedures

#### 6.1.1. For non-emergency personnel

**Protective equipment:** Gloves. Face-shield. Corrosion-proof suit.

Emergency procedures: Mark the danger area. No naked flames. Wash contaminated clothes. Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust, fume, vapours.

#### 6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2 Environmental precautions

Avoid release to the environment. Prevent soil and water pollution. Prevent spreading in sewers. Notify authorities if product enters sewers or public waters.

### 6.3 Methods and material for containment and cleaning up

For containment: Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Dam up the solid spill. Collect spillage.

Methods for cleaning up: Take up liquid spill into absorbent material.

Solid spill: take up in absorbent material. Scoop solid spill into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with a soap solution. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling. Notify authorities if product enters sewers or public waters.

Other information: Dispose of materials or solid residues at an authorized site

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## Section 7: Handling and storage

### 7.1 Precautions for safe handling

Ensure good ventilation of the workstation. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Keep away from naked flames/heat. Finely divided: spark- and explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Restricted to professional users. Warning! Avoid exposure. Obtain special instructions before use. Observe very strict hygiene - avoid contact. Keep container tightly closed. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe dust, fume, vapours. Avoid contact with skin and eyes.

Hygiene measures: Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

**Technical measures:** Take precautionary measures against static discharge.

**Storage conditions:** Keep container closed when not in use. Keep cool. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Store in accordance with local regulations on explosives. Store locked up. Store in a well-ventilated place.

**Heat and ignition sources:** heat sources.

Information on mixed storage: oxidizing agents. water/moisture. Storage area: Store in a cool area. Store in a dry area. Ventilation at floor level. Provide for a tub to collect spills. Meet the legal requirements.

Special rules on packaging: closing. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packaging's in solid containers.

**Packaging materials:** No data available.

## Section 8: Exposure controls/personal protection

### 8.1 Control parameters

<b>DNEL/DMEL (Workers)</b>	
Acute – systemic effects, dermal	1 mg/kg bodyweight/day
Acute – systemic effects, inhalation	0.07 mg/m <sup>3</sup>
Long-term – systemic effects, dermal	0.2 mg/kg bw/day
Long-term – systemic effects, inhalation	0.1 mg/m <sup>3</sup>
<b>DNEL/DMEL (General Population)</b>	
Acute – systemic effects, dermal	0.5 mg/kg bodyweight
Acute – systemic effects, inhalation	0.02 mg/m <sup>3</sup>
Acute – systemic effects, oral	0.001 mg/kg bodyweight
Long-term – systemic effects, oral	0.002 mg/kg bodyweight/day
Long-term – systemic effects, inhalation	0.003 mg/m <sup>3</sup>
Long-term – systemic effects, dermal	0.08 mg/kg bodyweight/day
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0.000463 mg/l
PNEC aqua (marine water)	0.0000463 mg/l
PNEC aqua (intermittent, freshwater)	0.00463 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	0.05 mg/kg wet weight

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<b>PNEC (Soil)</b>	
PNEC soil	0.0407 mg/kg wet weight
<b>PNEC (Oral)</b>	
PNEC oral (secondary poisoning)	0.2 mg/kg food
<b>PNEC (STP)</b>	
PNEC sewage treatment plan	100 mg/l

## 8.2 Exposure controls

Appropriate engineering controls: Ensure good ventilation of the workstation

## 8.3 Personal protective equipment

**Eye/face protection:** Use eye protection according to EN 166, designed to protect against liquid splashes.

Safety glasses

**Skin protection:** The most suitable glove must be chosen in consultation with the gloves supplier, who can inform on the breakthrough time of the glove material. Standard EN 374 - Protective gloves against chemicals. Material of gloves: Nitrile rubber. Glove thickness: 0.4 mm. Breakthrough time: >480 min. This recommendation applies only to the product stated in the safety data sheet

**Body protection:** Wear suitable protective clothing

**Respiratory protection:** Wear a full-face respirator conforming to EN136 with Type A/P2 filter or better. [In case of inadequate ventilation] wear respiratory protection



## Section 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	Brown, yellow
<b>Physical State</b>	Liquid
<b>Odour</b>	Characteristic odour
<b>Odour Threshold</b>	No information available
<b>pH</b>	No information available
<b>Melting Point/Range</b>	28.5 C
<b>Boiling Point/Range</b>	205 C
<b>Flash Point</b>	191 C
<b>Evaporation Rate</b>	No information available
<b>Flammability (solid, gas)</b>	No information available
<b>Explosion Limits</b>	No information available
<b>Vapour Pressure</b>	0.0000077 Pa @25 C
<b>Vapour Density</b>	No information available
<b>Specific Gravity / Density</b>	No information available
<b>Bulk Density</b>	No information available
<b>Water Solubility</b>	No information available
<b>Solubility in other solvents</b>	No information available
<b>Partition Coefficient</b>	No information available
<b>Auto-ignition temperature</b>	2000 C
<b>Decomposition temperature</b>	No information available

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## Section 10: Stability and Reactivity

<b>10.1 Reactivity</b>	Stable at ambient temperature and under normal conditions of use
<b>10.2 Chemical Stability</b>	Stable under normal conditions
<b>10.3 Possibility of hazardous reactions</b>	No dangerous reactions known under normal conditions of use
<b>10.4 Conditions to avoid</b>	May react violently with oxidants. Possible decomposition in case of hydrolysis in water
<b>10.5 Incompatible materials</b>	Strong acids. Strong bases. Strong oxidizing agents
<b>10.6 Hazardous decomposition products</b>	No hazardous decomposition products known.

## Section 11: Toxicological Information

### Product Information

#### 11.1 Toxicological effects:

**Acute toxicity (oral):** Not classified

**Acute toxicity (dermal):** Not classified

**Acute toxicity (inhalation):** Not classified

LD50 oral rat 2071 mg/kg

LD50 dermal rabbit > 2000 mg/kg bodyweight

**Skin corrosion/irritation:** Causes severe skin burns and eye damage.

**Serious eye damage/irritation:** Serious eye damage, category 1, implicit

**Respiratory or skin sensitisation:** May cause an allergic skin reaction.

**Germ cell mutagenicity:** Suspected of causing genetic defects.

**Carcinogenicity:** Not classified **Reproductive toxicity:** May damage fertility. May damage the unborn child.

**STOT-single exposure:** Causes damage to organs.

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

**Aspiration hazard:** Not classified

## Section 12: Ecological Information

### 12.1 Toxicity

#### Ecotoxicity effects

**Ecology - general:** Dangerous for the environment. Very toxic to aquatic life with long lasting effects.

**Ecology - water:** Slightly harmful to fishes. Very toxic to invertebrates (Daphnia).

**Acute aquatic toxicity:** Very toxic to aquatic life.

**Chronic aquatic toxicity:** Very toxic to aquatic life with long lasting effects.

**Bioaccumulative potential:** Log Pow: 4.44 @20.8C

## Section 13: Disposal considerations

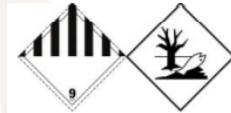
### 13.1 Waste treatment methods

#### Waste disposal of substance:

Disposal according to the local legislation. Do not dispose of with domestic waste. Dispose of contents/container in accordance with licensed collector's sorting instructions. Do not discharge into drains or the environment.

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## Section 14: Transport Information

ADR	IMDG	IATA	ADN	RID
UN Number				
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
UN Proper Shipping Name				
ENVIRONMENTAL LY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (dibutyltin dilaurate)	ENVIRONMENTAL LY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (dibutyltin dilaurate)	Environmentally hazardous substance, liquid, n.o.s. (dibutyltin dilaurate)	ENVIRONMENTAL LY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (dibutyltin dilaurate)	ENVIRONMENTAL LY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (dibutyltin dilaurate)
Transport document description				
UN 3082 ENVIRONMENTAL LY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (dibutyltin dilaurate), 9, III, (-)	UN 3082 ENVIRONMENTAL LY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (dibutyltin dilaurate), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (dibutyltin dilaurate), 9, III	UN 3082 ENVIRONMENTAL LY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (dibutyltin dilaurate), 9, III,	UN 3082 ENVIRONMENTAL LY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (dibutyltin dilaurate), 9, III,
Transport Hazard Classes				
9	9	9	9	9
				
Packaging Group				
III	III	III	III	III
Environmental Hazards				
Dangerous for the enviornment: Yes	Dangerous for the enviornment: Yes Marine Pollutant: Yes	Dangerous for the enviornment: Yes	Dangerous for the enviornment: Yes	Dangerous for the enviornment: Yes

## Special Precautions for User

### Overland transport

Classification code (ADR): M6

Special provisions (ADR): 274, 335, 375, 601

Limited quantities (ADR): 5l

Excepted quantities (ADR): E1

Packing instructions (ADR): P001, IBC03, LP01, R001

Special packing provisions (ADR): PP1

Mixed packing provisions (ADR): MP19

Portable tank and bulk container instructions (ADR): T4

Portable tank and bulk container special provisions (ADR): TP1, TP29

Tank code (ADR): LGBV

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Vehicle for tank carriage: AT

Transport category (ADR): 3

Special provisions for carriage - Packages (ADR): V12

Special provisions for carriage - Loading, unloading and handling (ADR): CV13

Hazard identification number (Kemler No.): 90



Orange plates:

## Transport by sea

Transport regulations (IMDG): Subject

Special provisions (IMDG): 274, 335, 969

Limited quantities (IMDG): 5 L

Excepted quantities (IMDG): E1

Packing instructions (IMDG): LP01, P001

Special packing provisions (IMDG): PP1

IBC packing instructions (IMDG): IBC03

Tank instructions (IMDG): T4

Tank special provisions (IMDG): TP2, TP29

EmS-No. (Fire): F-A

EmS-No. (Spillage): S-F

Stowage category (IMDG): A

MFAG-No: 171

## Air transport

Transport regulations (IATA): Subject to the provisions

PCA Excepted quantities (IATA): E1

PCA Limited quantities (IATA): Y964

PCA limited quantity max net quantity (IATA): 30kgG

PCA packing instructions (IATA): 964

PCA max net quantity (IATA): 450L

CAO packing instructions (IATA): 964

CAO max net quantity (IATA): 450L

Special provisions (IATA): A97, A158, A197

ERG code (IATA): 9L

## Inland waterway transport

Classification code (ADN): M6

Special provisions (ADN): 274, 335, 375, 601

Limited quantities (ADN): 5 L

Excepted quantities (ADN): E1

Carriage permitted (ADN): T

Equipment required (ADN): PP

Number of blue cones/lights (ADN): 0

## Rail transport

Transport regulations (RID): Subject

Classification code (RID): M6

Special provisions (RID): 274, 335, 375, 601

## Dibutyltin Dilaurate

Excepted quantities (RID): E1

Packing instructions (RID): P001, IBC03, LP01, R001

Special packing provisions (RID): PP1

Mixed packing provisions (RID): MP19

Portable tank and bulk container instructions (RID): T4

Portable tank and bulk container special provisions (RID): TP1, TP29

Tank codes for RID tanks (RID): LGBV

Transport category (RID): 3

Special provisions for carriage – Packages (RID): W12

Special provisions for carriage - Loading, unloading and handling (RID): CW13, CW31

Colis express (express parcels) (RID): CE8

Hazard identification number (RID): 90

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

### Section 15: Regulatory Information

Dibutyltin compounds is subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals. dibutyltin dilaurate is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC