

ALADDIN SCIENTIFIC CORPORATION  
14078 Meridian Parkway, Riverside, CA. 92518

# SAFETY DATA SHEET

Version: v1  
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

Product name : Dibutyltin dilaurate  
Product Number : D100274  
Brand : aladdin  
CAS-No. : 77-58-7

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

Identified uses : Laboratory chemicals, Manufacture of substances.

### 1.3 Company

Company : ALADDIN SCIENTIFIC CORPORATION  
Address : 14078 Meridian Parkway,  
Riverside, CA. 92518  
Telephone : +1 (833) 552-7181  
Fax : no data available

### 1.4 Emergency telephone number

CHEMTREC®, Inside the USA : 1-800-424-9300  
CHEMTREC®, Outside the USA :

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, oral (Class 3), H301

Acute toxicity, inhalation (Class 2), H330

Skin corrosion/irritation (Category 2), H315

Severe eye injury/eye irritation (Category 2A), H319

Skin allergy (Category 1), H317

Germ cell mutagenicity (class 2), H341

Reproductive toxicity (Category 1B), H360

Specific target organ systemic toxicity (single exposure) (Category 1), thymus, H370

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Specific target organ systemic toxicity (repeated exposure) (Category 1), thymus, immune system, H372

Acute (short-term) aquatic hazard (Category 1), H400

Long term aquatic hazards (Category 1), H410

## 2.2 GHS Label elements, including precautionary statements

Pictogram



Danger

Signal word

Hazard statement(s)

H270	May cause or intensify fire; oxidizer
H301	Toxic if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H330	Fatal if inhaled
H341	Suspected of causing genetic defects
H360	May damage fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H410	Very toxic to aquatic life with long lasting effects

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash hands [and ...] thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	[In case of inadequate ventilation] Wear respiratory protection.
P391	Collect spillage.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
P302+P352	IF ON SKIN: wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P333+P313	IF SKIN irritation or rash occurs: Get medical advice/attention.
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container to an approved waste disposal plant.

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## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Synonyms	: DBTDL ; Di-n-butyltin dilaurate ; Ditin butyl dilaurate
Formula	: C <sub>32</sub> H <sub>64</sub> O <sub>4</sub> Sn
Molecular weight	: 631.56
CAS No.	: 77-58-7
EC-NO.	: 201-039-8

Component	Classification	Concentration
Dibutyltin dilaurate	no data available	≥95%

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

In case of skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

In case of eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

If swallowed

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

#### 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

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Suitable extinguishing media

Use dry chemical, carbon dioxide or alcohol-resistant foam.

Unsuitable extinguishing media

no data available

## 5.2 Special hazards arising from the substance or mixture

Carbon oxides Tin/tin oxide Flammable Vapor is heavier than air, so it can diffuse along the ground. Under rapid heating, it forms an explosive mixture with air When a fire occurs, it may cause the generation of hazardous gases or vapors

## 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

## 5.4 Further information

no data available

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## SECTION 6: Accidental release measures

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

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

### 6.2 Environmental precautions

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

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

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

### 6.4 Reference to other sections

For disposal see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Operators should be specially trained and strictly abide by the operating procedures. Operation and disposal should be carried out in a place with local ventilation or general ventilation facilities. Avoid eye and skin contact and avoid breathing vapor. See Section 8 for personal protective measures. Keep away from fire and heat sources, and smoking is strictly prohibited in the workplace. Use explosion-proof ventilation systems and equipment. If canning is required, the flow rate should be controlled, and there should be a grounding device to prevent the accumulation of static electricity. Avoid contact with incompatible substances such as oxidizing agents (see section 10 for

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incompatible substances). When handling, it should be lightly loaded and unloaded to prevent damage to packaging and containers. Empty containers may be harmful residues. Wash hands after use and prohibit eating or drinking in the workplace. Equipped with the corresponding variety and quantity of fire fighting equipment and leakage emer

## 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool and ventilated warehouse.

## 7.3 Specific end use(s)

no data available

# SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

## 8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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 EN166(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. The selected protective gloves have to satisfy the specifications of Regulation (EU)2016/425 and the standard EN 374 derived from it.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., 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 (US) or type P3 (EN 143) respirator cartridges as a 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 such as NIOSH (US) or CEN(EU).

Control of environmental exposure

If safety requires, prevent further leakage or spillage. Do not let the product enter the sewer.

# SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

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a) Appearance	form: liquid color: colorless to pale yellow
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	13 °C
f) Initial boiling point and boiling range	>204°/12mm
g) Flash point	189 - 193 °C
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	no data available
k) Vapour pressure	no data available
l) Vapour density	no data available
m) Relative density	1.066
n) Water solubility	no data available
o) Partition coefficient: n-octanol/water	no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties N	no data available
t) Oxidizing properties N	no data available

## 9.2 Other safety information

no data available

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## 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

Intense reactions may occur with it: Alkalinity Strong oxidant acid

### 10.4 Conditions to avoid

Strong heating

### 10.5 Incompatible materials

Strong oxidant, strong alkali

### 10.6 Hazardous decomposition products

no data available

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity

LD50 oral - rats - males and females -2071 mg/kg

(OECD Testing Guidelines 401)

Inhalation: No data available

LD50 transdermal - rats - males and females ->2000 mg/kg

(OECD Testing Guidelines 402)

Skin corrosion/irritation

Skin EPISKIN human skin model test Result: Non corrosive -4 hours (OECD Testing Guidelines 431)

Serious eye damage/eye irritation

Eyes - Rabbit Result: Severe irritation (OECD Testing Guidelines 405)

Respiratory or skin sensitisation

Maximum Response Test - Guinea Pig Result: Positive (OECD Testing Guidelines 406)

Germ cell mutagenicity

Suspected of causing genetic defects. Test type: Ames test Test system: Escherichia coli/Salmonella typhimurium

Metabolic activation: with or without metabolic activation effect Method: OECD Testing Guidelines 471 Result:

Negative Result: There was no mutagenicity in the Ames experiment. Test type: In vitro mammalian cell gene mutation test Testing system: Chinese hamster lung cells Metabolic activation: with or without metabolic activation

effect Method: OECD Testing Guidelines 476 Result: Negative Result: Positive results were obtained in some in vitro experiments. Test type: Mutability (mammalian cell test): Negative for chromosomal variation Testing System:

Human Lymphocytes Metabolic activation: with or without metabolic activation effect Method: OECD Testing

Guidelines 473 Result: Positive Test type: In vivo micronucleus test Species: Mice Cell type: Bone marrow Poisoning route: oral route Method: OECD Testing Guidelines 474 Result: Positive

Carcinogenicity

no data available

Reproductive toxicity

May cause harm to the fetus.

Specific target organ toxicity - single exposure

It can damage organs- thymus

Specific target organ toxicity - repeated exposure

Long term or repeated exposure can cause damage to organs- Thymus, immune system

Aspiration hazard

no data available

Additional Information

Repeated toxicity - rats - male and female - oral - no harmful effects observed -2 mg/kg

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Registration of toxic effects of chemical substances: WH7000000

To our knowledge, this chemical, physical, and toxic property has not been fully studied.

The following data are applicable to general organic Stannide: system effects: central nervous system diseases (spasm, anesthesia, respiratory paralysis)

Other hazards cannot be ruled out.

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## SECTION 12: Ecological information

### 12.1 Toxicity

Static toxicity test for fish LC50- Danio rerio (zebrafish) -21.2 mg/l -96 hours

(OECD Testing Guidelines 203)

For Daphnia and other aquatic invertebrates

Toxicity of vertebrates

Static test EC50- Daphnia magna -1.7-3.4 mg/l -48 hours

(OECD Testing Guidelines 202)

Remarks: (ECHA)

Static toxicity test on algae ErC50- Desmodesmus subspicatus (green algae) ->1 mg/l -72 hours

(OECD Testing Guidelines 201)

Remarks: (highest concentration prepared)

Static toxicity test for bacteria EC50- Activated sludge ->1000 mg/l -3 hours

(OECD Testing Guidelines 209)

Remarks: (Exceeding the upper solubility limit of the test substance)

### 12.2 Persistence and degradability

Anaerobic - Exposure time 39 days Result: 23% - not easily biodegradable. (OECD Test Guide 301F)

### 12.3 Bioaccumulative potential

no data available

### 12.4 Mobility in soil

no data available

### 12.5 Results of PBT and vPvB assessment



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no data available

## 12.6 Other adverse effects

no data available

## SECTION 13:

### 13.1 Disposal considerations

Product

Recycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur.

Observe all federal, state and local regulations when disposing of the substance.

Contaminated packaging

Dispose of as unused product.

## SECTION 14: Transport information

DOT (US)

UN number: 2788

Packing group: II

Class: 6.1

Proper shipping name: Organotin compound, liquid, n.o.s.

Reportable Quantity(RQ): no data available

Poison Inhalation Hazard: no data available

Environmental Hazards: yes

IMDG

UN number: 2788

Packing group: II

EMS-No: no data available

Proper shipping name: Organotin compound, liquid, n.o.s.

IATA

UN number: 2788

Packing group: II

Class: 6.1

Proper shipping name: Organotin compound, liquid, n.o.s.

## SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

## SECTION 16: Other information

<b>Prepared By</b>	Regulatory Affairs ALADDIN SCIENTIFIC CORPORATION Email: QualityAssurance@aladdinsci.com
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