

Dibutyltin dilaurate Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 07/11/2023 Supersedes: 05/04/2005

SECTION 1: Identification .1. Identification	
Product form	: Substance
Trade name	: Dibutyltin dilaurate
Chemical name	
CAS-No.	: 77-58-7
Product code	: 01862
Formula	: C32H64O4Sn
.2. Recommended use and restriction	s on use
Recommended use	: Use as laboratory reagent, Manufacture of substances
.3. Supplier	
Supplier Polysciences 400 Valley Road Warrington, PA 18976 - United States T +1 215 343 6484 - F +1 215 343 0214 info@polysciences.com - www.polysciences.com	<u>20m</u>
.4. Emergency telephone number	
Emergency number	: 24-hour emergency phone number ChemTel 1-800-255-3924
SECTION 2: Hazard(s) identification	h
.1. Classification of the substance or I	mixture
GHS US classification	
Skin corrosion/irritation Category 1C Serious eye damage/eye irritation Category 1 Serious eye damage/eye irritation Category 2 Germ cell mutagenicity Category 2 Reproductive toxicity Category 1B Specific target organ toxicity (repeated exposu Category 1 Hazardous to the aquatic environment – Acute Category 1 Hazardous to the aquatic environment – Chron Category 1	Suspected of causing genetic defects May damage fertility or the unborn child ure) Causes damage to organs through prolonged or repeated exposure e Hazard Very toxic to aquatic life
.2. GHS Label elements, including pre	cautionary statements
<b>3</b>	
GHS US labeling	
GHS US labeling Hazard pictograms (GHS US)	
-	: Danger
Hazard pictograms (GHS US)	<ul> <li>Harmful if swallowed or if inhaled Causes severe skin burns and eye damage Causes serious eye damage Causes eye irritation Suspected of causing genetic defects May damage fertility or the unborn child Causes damage to organs through prolonged or repeated exposure Very toxic to aquatic life</li> </ul>
Hazard pictograms (GHS US) Signal word (GHS US)	<ul> <li>Harmful if swallowed or if inhaled Causes severe skin burns and eye damage Causes serious eye damage Causes eye irritation Suspected of causing genetic defects May damage fertility or the unborn child Causes damage to organs through prolonged or repeated exposure</li> </ul>

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Wash hands, forearms and face thoroughly after handling. Do not eat, drink or smoke when using this product.

#### 2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

.1. Substances			
Name	Product identifier	%	GHS US classification
Dibutyltin dilaurate (Main constituent)	(CAS-No.) 77-58-7	≤ 100	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1C, H314 Eye Dam. 1, H318 Eye Irrit. 2B, H320 Muta. 2, H341 Repr. 1B, H360 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures	
Not applicable	
SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	<ul> <li>Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.</li> </ul>
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Call a physician immediately. Do not induce vomiting.
4.2. Most important symptoms and effect	ts (acute and delayed)
Symptoms/effects after skin contact	: Burns.
Symptoms/effects after eye contact	: Serious damage to eyes. Mild eye irritation.
Symptoms/effects after ingestion	: Burns.
4.3. Immediate medical attention and sp	ecial treatment, if necessary
Treat symptomatically.	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguish	ing media
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Specific hazards arising from the ch	emical
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Special protective equipment and protecti	ecautions for fire-fighters
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release meas	sures
6.1. Personal precautions, protective eq	uipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapors/spray.

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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. Notify author	ities if product enters sewers or public waters.
6.3. Methods and material for containm	ient and cleaning up
For containment	: Collect spillage.
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse. Separate working clothes from town clothes. Launder separately.
7.2. Conditions for safe storage, includ	ing any incompatibilities
Storage conditions	: Store at room temp. Store locked up. Store in a well-ventilated place. Keep cool.
SECTION 8: Exposure controls/pers	sonal protection
8.1. Control parameters	
Dibutyltin dilaurate (77-58-7)	
No additional information available	
8.2. Appropriate engineering controls	
Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.
8.3. Individual protection measures/Per	rsonal protective equipment
Hand protection:	
Protective gloves	
Eye protection:	
Safety glasses	
Skin and body protection:	
Wear suitable protective clothing	
Respiratory protection:	
In case of insufficient ventilation, wear suitab	ble respiratory equipment. [In case of inadequate ventilation] wear respiratory protection.
Personal protective equipment symbol(s):	

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SECTION 9: Physical and chemical p	-
9.1. Information on basic physical and ch	
Physical state	: Liquid
Appearance	: viscous pale yellow liquid.
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: no data
Freezing point	: No data available
Boiling point	: no data
Flash point	: 235 °F F
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: 0.2 mm Hg @ 160 deg. c.
Relative vapor density at 20°C	: no data
Relative density	: No data available
Molecular mass	: 631.5
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
9.2. Other information	
No additional information available	

SECTION 10: Stability and reactivit	tability and reactivity
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#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

The pio	
10.2.	Chemical stability
Stable u	inder normal conditions.
10.3.	Possibility of hazardous reactions
No dang	gerous reactions known under normal conditions of use.
10.4.	Conditions to avoid
None ur	nder recommended storage and handling conditions (see section 7).
10.5.	Incompatible materials
No addi	tional information available
10.6.	Hazardous decomposition products
	ormal conditions of storage and use, hazardous decomposition products should not be produced.
SECT	ION 11: Toxicological information
11.1.	Information on toxicological effects

11.1. Information on toxicological effects	
Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Harmful if inhaled.
Dibutyltin dilaurate (77-58-7)	
LD50 oral rat	175 µg/kg mg/Kg

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Dibutyltin dilaurate (77-58-7)	
LD50 dermal rat	> ≥ 2000 mg/kg > 2000 mg/kg
ATE US (oral)	0.175 mg/kg body weight
ATE US (dermal)	2000 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h
Skin corrosion/irritation	: Causes severe skin burns.
Serious eye damage/irritation	: Causes serious eye damage. Causes eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Suspected of causing genetic defects.
Carcinogenicity	: Not classified
Reproductive toxicity	: May damage fertility or the unborn child.
STOT-single exposure	: Not classified
STOT-repeated exposure	: Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	<ul> <li>Burns.</li> <li>Serious damage to eyes. Mild eye irritation.</li> <li>Burns.</li> </ul>

SECT	ION 12: Ecological information	
12.1.	Toxicity	
Ecolog	gy - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. Very toxic to aquatic life with long lasting effects.
12.2.	Persistence and degradability	
No addi	tional information available	
12.3.	Bioaccumulative potential	
No addi	tional information available	
12.4.	Mobility in soil	
No addi	tional information available	
12.5.	Other adverse effects	
No addi	tional information available	

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: Dispose of contents/container in accordance with licensed collector's sorting instructions.
: UN3082 Environmentally hazardous substances, liquid, n.o.s., 9, III
: UN3082
: Environmentally hazardous substances, liquid, n.o.s.
. Environmentally hazardede edecanoee, inquia, inc.o.
: 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140

### Safety Data Sheet

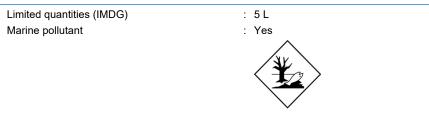
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Hazard labels (DOT)	: 9 - Class 9 (Miscellaneous dangerous materials)
Dangerous for the environment	· Yes
Marine pollutant	: Yes
	₩22
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Symbols	: G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	<ul> <li>8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies.</li> <li>146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous by the Competent Authority of the country of origin, transit or destination.</li> <li>173 - An appropriate generic entry may be used for this material.</li> <li>335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s," UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leak-proof when used as bulk packaging.</li> <li>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquid with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 5 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Tabl 2 for UN2672).</li> <li>T4 - 2.65 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 155
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Emergency Response Guide (ERG) Number	: 171
Other information	: No supplementary information available.
Transportation of Dangerous Goods	
Not applicable	
Transport by sea	
Transport document description (IMDG)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III
UN-No. (IMDG)	: 3082
	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (IMDG)	
Proper Shipping Name (IMDG) Class (IMDG) Packing group (IMDG)	<ul> <li>9 - Miscellaneous dangerous substances and articles</li> <li>III - substances presenting low danger</li> </ul>

#### EN (English US)

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#### Air transport

Transport document description (IATA)	: UN 3082 Environmentally hazardous substance, liquid, n.o.s., 9, III
UN-No. (IATA)	: 3082
Proper Shipping Name (IATA)	: Environmentally hazardous substance, liquid, n.o.s.
Class (IATA)	: 9 - Miscellaneous Dangerous Substances and Articles
Packing group (IATA)	: III - Low danger

#### 15.1. US Federal regulations

#### Dibutyltin dilaurate (77-58-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

#### CANADA

#### Dibutyltin dilaurate (77-58-7)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

National regulations No additional information available

15.3. US State regulations

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

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Hazard Rating	
Health	: 4 Severe Hazard - Life-threatening, major or permanent damage may result from single or repeated overexposures
Flammability	: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

#### SDS US (GHS HazCom 2012)

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