

Safety Data Sheet SND3351

Issue date: 06/15/2016 Revision date: 03/14/2022 Version: 1.2

### **SECTION 1: Identification**

#### 1.1. Identification

Product name : DI-t-BUTYLTIN OXIDE

Product code : SND3351
Product form : Substance
Physical state : Solid

Formula : (C8H18OSn)n

Synonyms : DI-t-BUTYL-OXO-STANNANE

Chemical family : TIN COMPOUND

#### 1.2. Recommended use and restrictions on use

Recommended use : Chemical intermediate

#### 1.3. Supplier

#### GELEST, INC.

11 East Steel Road Morrisville, PA 19067

USA

T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 AM - 5:30 PM EST

info@gelest.com - www.gelest.com

### 1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)

### **SECTION 2: Hazard(s) identification**

### 2.1. Classification of the substance or mixture

#### **GHS US classification**

Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

Category 3, Respiratory tract irritation Full text of H statements : see section 16

H315 Causes skin irritationH319 Causes serious eye irritation

H335 May cause respiratory irritation

### 2.2. GHS Label elements, including precautionary statements

### **GHS US labeling**

Hazard pictograms (GHS US)



Signal word (GHS US) : Warning

Hazard statements (GHS US) : H315 - Causes skin irritation

H319 - Causes serious eye irritation H335 - May cause respiratory irritation

Precautionary statements (GHS US) : P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P312 - Call a doctor if you feel unwell.

P261 - Avoid breathing dust.

P264 - Wash hands thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area.

Print date: 10/25/2022 EN (English US) SDS ID: **SND3351** 1/8

# Safety Data Sheet

P302+P352 - If on skin: Wash with plenty of soap and water.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

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

P337+P313 - If eye irritation persists: Get medical advice/attention.

P321 - Specific treatment (see first aid instructions on this label).

P362+P364 - Take off contaminated clothing and wash it before reuse.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P501 - Dispose of contents/container to licensed waste disposal facility...

#### 2.3. Hazards not otherwise classified (HNOC)

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substances

Substance type : Mono-constituent
Name : DI-t-BUTYLTIN OXIDE

CAS-No. : 19140-19-3

Product identifier	%	GHS US classification
CAS-No.: 19140-19-3		Skin Irrit. 2, H315
		Eye Irrit. 2A, H319 STOT SE 3, H335
		CAS-No.: 19140-19-3 95 – 100

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 : Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical

advice immediately (show the label where possible). If possible show this sheet; if not available

show packaging or label.

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel

unwell, seek medical advice.

First-aid measures after skin contact : Wash with plenty of soap and water. Get medical advice/attention.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Get medical advice/attention.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : May cause irritation to the respiratory tract.

Symptoms/effects after skin contact : Causes skin irritation.

Symptoms/effects after eye contact : Causes serious eye irritation. Symptoms/effects after ingestion : May be harmful if swallowed.

Chronic symptoms : Exposure to dust or fumes of inorganic tin compounds is known to cause a benign

pneumoniosis. (stannosis).

 Print date: 10/25/2022
 EN (English US)
 SDS ID: SND3351
 2/8

# Safety Data Sheet

### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

### **SECTION 5: Fire-fighting measures**

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Foam. Carbon dioxide.

Unsuitable extinguishing media : None known.

#### 5.2. Specific hazards arising from the chemical

Fire hazard : Irritating fumes and organic acid vapors may develop when material is exposed to elevated

temperatures or open flame.

#### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Use water spray to cool exposed surfaces.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Avoid

contact with skin and eyes. Do not breathe dust.

#### **SECTION 6: Accidental release measures**

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

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear protective equipment as described in Section 8.

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with

proper protection. For further information refer to section 8: "Exposure controls/personal

protection".

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

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

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams.

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Do not breathe dust. Avoid dust formation. Use only outdoors

or in a well-ventilated area.

Hygiene measures : Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap

and water before eating, drinking or smoking and when leaving work.

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

Storage conditions : Keep container tightly closed. Store locked up.

Incompatible materials : None known.

Storage area : Store in a well-ventilated place.

Print date: 10/25/2022 EN (English US) SDS ID: **SND3351** 3/8

# Safety Data Sheet

## **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

# Di-t-butyltin oxide (19140-19-3)

**USA - ACGIH - Occupational Exposure Limits** 

ACGIH OEL TWA 0.1 mg/m3 as tin

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Provide local exhaust or general room ventilation.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

#### Hand protection:

Neoprene or nitrile rubber gloves

#### Eye protection:

Chemical goggles. Contact lenses should not be worn

#### Skin and body protection:

Wear suitable protective clothing

# Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.

### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Solid Appearance Powder. Molecular mass 242.98 g/mol White to off-white. Color Odor Odorless.

Odor threshold No data available Hq No data available

Relative evaporation rate (butyl acetate=1) No data available Melting point > 270 °C decomposes Freezing point No data available Boiling point No data available Flash point No data available Auto-ignition temperature No data available Decomposition temperature No data available No data available Flammability (solid, gas) Vapor pressure < 0.1 mm Hg @ 25°C

Relative vapor density at 20°C

Relative density > 1 Solubility Insoluble in water. Partition coefficient n-octanol/water (Log Pow) No data available Partition coefficient n-octanol/water (Log Kow) No data available Viscosity, kinematic No data available No data available Viscosity, dynamic Explosive properties No data available Oxidizing properties No data available **Explosion limits** : No data available

Print date: 10/25/2022 EN (English US) SDS ID: SND3351 4/8

No data available

# Safety Data Sheet

#### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

None known.

#### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

Organic acid vapors. Tin oxides.

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

### 11.1. Information on toxicological effects

Acute toxicity (oral): Not classifiedAcute toxicity (dermal): Not classifiedAcute toxicity (inhalation): Not classifiedSkin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : Not classified Aspiration hazard : Not classified

Symptoms/effects after inhalation : May cause irritation to the respiratory tract.

Symptoms/effects after skin contact : Causes skin irritation.

Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects after ingestion : May be harmful if swallowed.

Chronic symptoms : Exposure to dust or fumes of inorganic tin compounds is known to cause a benign

pneumoniosis. (stannosis).

Reason for classification : Expert judgment

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

### 12.1. Toxicity

No additional information available

Print date: 10/25/2022 EN (English US) SDS ID: **SND3351** 5/8

# Safety Data Sheet

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Other adverse effects : This substance may be hazardous to the environment.

Effect on the ozone layer : No additional information available

### **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

Sewage disposal recommendations : Do not dispose of waste into sewer.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to licensed waste disposal facility..

Ecology - waste materials : Avoid release to the environment.

### **SECTION 14: Transport information**

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG		IMDG	IATA
14.1. UN number		7 5		
Not regulated for transport				
14.2. Proper Shipping Name				
Not applicable	Not applicable		Not applicable	Not applicable
Transport document description				
Not applicable	Not applicable		Not applicable	Not applicable
14.3. Transport hazard class(es	)			
Not applicable	Not applicable		Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable		Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable		Not applicable	Not applicable
No supplementary information availab	le			

### 14.6. Special precautions for user

#### DOT

No data available

#### **TDG**

No data available

Print date: 10/25/2022 EN (English US) SDS ID: **SND3351** 6/8

# Safety Data Sheet

#### **IMDG**

No data available

#### IATA

No data available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

DI-t-BUTYLTIN OXIDE (19140-19-3)	
TSCA Exemption/Exclusion	CAUTION: This material is supplied for research and development purposes subject to the RD exemption under TSCA, 40 CFR 720.36, and must meet the requirements of the exemption, including supervision by a "technically qualified individual" as defined by 40 CFR 720.3(ee). The use of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is not permitted in the United States.

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	<b>3</b>	Commercial status	Flags
Di-t-butyltin oxide	19140-19-3	Not present	-	

### 15.2. International regulations

#### CANADA

No additional information available

#### **EU-Regulations**

No additional information available

#### **National regulations**

No additional information available

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

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

#### Full text of H-phrases::

H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

Abbreviations and acronyms

: Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development; GHS: The Globally Harmonized System of Classification and Labelling; APF: Assigned Protection Factor.

Print date: 10/25/2022 EN (English US) SDS ID: **SND3351** 7/8

# Safety Data Sheet

Hazard Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

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.

Prepared by safety and environmental affairs.

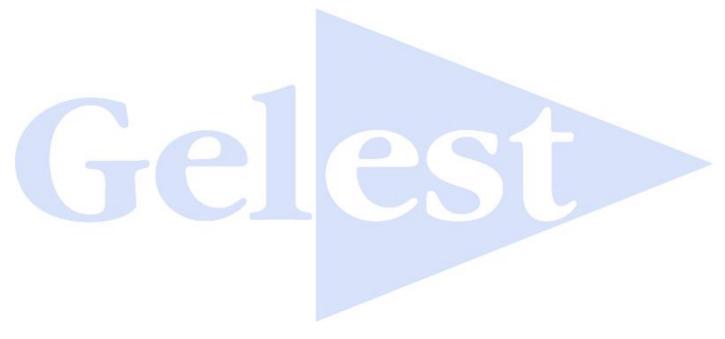
Issue date: 06/15/2016 Revision date: 03/14/2022 Version: 1.2

SDS US (GHS HazCom 2012) - Custom

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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Print date: 10/25/2022 EN (English US) SDS ID: **SND3351** 8/8