

Safety Data Sheet SND4060
Date of issue: 08/13/2015 Version: 1.0

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

### 1.1. Product identifier

Product form : Substance
Physical state : Liquid

Substance name : DI-n-BUTYLBIS(2-ETHYLHEXYLMALEATE)TIN, tech-95

Product code : SND4060
Formula : C22H44O4S2Sn

Synonyms : BIS(ISOOCTYLTHIOGLYCOLATE)DIMETHYLTIN; DIISOOCTYL 2,2'-

[(DIMETHYLSTANNYLENE)BIS(THIO)]DIACETATE; DIMETHYLTIN S,S'-BIS(ISOOCTYL

MERCAPTOACETATE)

Chemical family : TIN COMPOUND

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

Use of the substance/mixture : Chemical intermediate

For research and industrial use only

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

### **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: Hazards identification**

## 2.1. Classification of the substance or mixture

### **Classification (GHS-US)**

Acute Tox. 4 (Oral) H302 Skin Irrit. 2 H315 Eye Irrit. 2A H319

Full text of H-phrases: see section 16

# 2.2. Label elements

## **GHS-US** labeling

Hazard pictograms (GHS-US)



GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H302 - Harmful if swallowed H315 - Causes skin irritation

H319 - Causes serious eye irritation

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

P264 - Wash hands thoroughly after handling P270 - Do not eat, drink or smoke when using this product

P330 - Rinse mouth
P301+P312 - If swallowed: Call a doctor if you feel unwell
P302+P352 - If on skin: Wash with plenty of soap and water

P332+P313 - If skin irritation occurs: Get medical advice/attention 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 P501 - Dispose of contents/container to licensed waste disposal facility.

### 2.3. Other hazards

No additional information available

08/13/2015 EN (English US) SDS ID: **SND4060** Page 1

# Safety Data Sheet

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

No data available

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

#### 3.1. Substance

Substance type : Mono-constituent

Name : DI-n-BUTYLBIS(2-ETHYLHEXYLMALEATE)TIN, tech-95

CAS No : 26636-01-1 EC no : 247-862-6

Name	Product identifier	%	Classification (GHS-US)
Dibutyltin S,S'-bis(isooctyl mercaptoacetate)	(CAS No) 26636-01-1	> 95	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319

#### 3.2. Mixture

Not applicable

## **SECTION 4: First aid measures**

# 4.1. Description of 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. IF exposed or concerned: Get medical advice/attention.

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, both acute and delayed

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

Symptoms/injuries after skin contact : Causes skin irritation.

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

Symptoms/injuries after ingestion : Harmful if swallowed. Swallowing a small quantity of this material will result in serious health

hazard.

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

pneumoniosis. (stannosis).

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

No additional information available

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Foam. Carbon dioxide.
Unsuitable extinguishing media : Do not use straight streams.

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

Fire hazard : Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.

### 5.3. Advice for firefighters

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

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

Avoid all eye and skin contact and do not breathe vapor and mist.

# **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".

08/13/2015 EN (English US) SDS ID: **SND4060** 2/6

# Safety Data Sheet

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid 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 : Clean up any spills as soon as possible, using an absorbent material to collect it. 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 all eye and skin contact and do not breathe vapor and mist. Provide good ventilation in

process area to prevent accumulation of vapors.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Wash contaminated clothing before reuse.

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

Storage conditions : Keep container tightly closed.

Incompatible materials : Peroxides. Chlorine. Strong oxidizers.

Storage area : Store in a well-ventilated place. Store away from heat.

### 7.3. Specific end use(s)

No additional information available

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

### 8.1. Control parameters

USA ACGIH ACGIH TWA (mg/m³) 0.1 mg/m³ as tin

## 8.2. Exposure controls

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

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 combination organic vapor/acid gas (yellow cartridge)

respirator

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

# 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Liquid. Viscous. Molecular mass : 555.38 g/mol Color Pale yellow. Odor Disagreeable. Odor threshold No data available Refractive index : No data available : No data available Relative evaporation rate (butyl acetate=1) No data available Melting point : No data available

Freezing point : < 25 °C Boiling point : > 200 °C Flash point : 127 °C

Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapor pressure : < 1 mm Hg @ 20°C

08/13/2015 EN (English US) SDS ID: **SND4060** 3/6

# Safety Data Sheet

Relative vapor density at 20 °C : No data available

Relative density : 1.17VOC content : < 0.3 %

Solubility : Insoluble in water. : No data available Log Pow Log Kow : No data available Viscosity, kinematic : 50 cSt @ 25°C Viscosity, dynamic : No data available Explosive properties : No data available : No data available Oxidizing properties : No data available **Explosion limits** 

### 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

Avoid contact with strong oxidizers such as peroxides and chlorine.

### 10.4. Conditions to avoid

Open flame. Heat. Sparks.

## 10.5. Incompatible materials

Peroxides. Chlorine. Strong oxidizers.

# 10.6. Hazardous decomposition products

Organic acid vapors. Tin oxides. Oxides of sulfur.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

DI-n-BUTYLBIS(2-ETHYLHEXYLMALEATE)TIN, tech-95 (26636-01-1)		
ATE US (oral)	1452.632 mg/kg body weight	
Dibutyltin S,S'-bis(isooctyl mercaptoacetate) (26636-01-1)		
LD50 oral rat	1380 mg/kg	
ATE US (oral)	1380.000 mg/kg body weight	

Skin 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
Specific target organ toxicity (single exposure) : Not classified
Specific target organ toxicity (repeated exposure)

cxposurc,

Aspiration hazard : Not classified

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

Symptoms/injuries after skin contact : Causes skin irritation.

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

Symptoms/injuries after ingestion : Harmful if swallowed. Swallowing a small quantity of this material will result in serious health

hazard.

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

pneumoniosis. (stannosis).

Reason for classification : Expert judgment

08/13/2015 EN (English US) SDS ID: **SND4060** 4/6

Safety Data Sheet

# **SECTION 12: Ecological information**

### 12.1. Toxicity

No additional information available

### 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 ozone layer : No additional information available

Effect on the global warming : No known ecological damage caused by this product.

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

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

Waste disposal recommendations : May be incinerated with scrubbers for metallic oxides and sulfur dioxide. 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**

### 14.1. UN number

Not regulated for transport.

### 14.2. UN proper shipping name

Not applicable

# 14.3. Additional information

Other information : No supplementary information available.

### Transport by sea

No additional information available

# Air transport

No additional information available

## **SECTION 15: Regulatory information**

# 15.1. US Federal regulations

# Dibutyltin S,S'-bis(isooctyl mercaptoacetate) (26636-01-1)

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

### 15.2. International regulations

# Dibutyltin S,S'-bis(isooctyl mercaptoacetate) (26636-01-1)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian DSL (Domestic Sustances List)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

# 15.3. US State regulations

DIBUTYLTIN DIISOOCTYLMALEATE(26636-01-1)	
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	No
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive	No

08/13/2015 EN (English US) SDS ID: **SND4060** 5/6

# Safety Data Sheet

DIBUTYLTIN DIISOOCTY Toxicity - Male	(LMALEATE(26636-01-1)			
Dibutyltin S,S'-bis(isooctyl mercaptoacetate) (26636-01-1)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
No	No	No	No	

# **SECTION 16: Other information**

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.

## Full text of H-phrases::

A C. I. Pillacooli				
Acute Tox. 4 (Oral)		Acute toxicity (oral) Category 4		
Eye Irrit. 2A		Serious eye damage/eye irritation Category 2A		
Skin Irrit. 2		Skin corrosion/irritation Category 2		
H302		Harmful if swallowed		
H315		Causes skin irritation		
H319		Causes serious eye irritation		

### **HMIS III Rating**

Health

3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is

given

Flammability Physical 2 Moderate Hazard0 Minimal Hazard

Prepared by safety and environmental affairs.

Date of issue: 08/13/2015

Version: 1.0

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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08/13/2015 EN (English US) SDS ID: **SND4060** 6/6