

Safety Data Sheet SND2800 Date of issue: 02/05/2016 Version: 1.0

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

Product identifier

Product form : Substance Physical state : Liquid

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

Product code SND2800 Formula C32H68S2Sn

: DIBUTYLTINDILAURYLMERCAPTIDE; DIBUTYLBIS(DODECYLTHIO)STANNANE Synonyms

Chemical family : ORGANOTIN

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

: Chemical intermediate Use of the substance/mixture

For research and industrial use only

Details of the supplier of the safety data sheet

GELEST, INC.

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USA

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Emergency telephone number

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

SECTION 2: Hazards identification

Classification of the substance or mixture

GHS-US classification

Acute Tox. 3 (Oral) H301 Skin Irrit. 2 H315 Eye Irrit. 2A H319

Full text of H statements : see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)





GHS06

GHS07

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) H301 - Toxic if swallowed H315 - Causes skin irritation

H319 - Causes serious eye irritation

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

P264 - Wash hands thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P330 - Rinse mouth

P301+P310 - If swallowed: Immediately call a POISON CENTER 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

P405 - Store locked up

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

Other hazards

No additional information available

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2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/Information on ingredients

3.1. Substance

Substance type : Multi-constituent

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

CAS No : 1185-81-5 EC no : 214-688-7

Name	Product identifier	%	GHS-US classification
Di-n-butylbis(dodecylthio)tin	(CAS No) 1185-81-5	95 - 100	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Other Organotins		0 - 5	Not classified

3.2 Miyturo

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. Immediately call a poison center or

doctor/physician.

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. Organotins may be absorbed through the skin.

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

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

hazard.

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

Note to physician: Application of corticosteroid creams has been effective in treating severe skin irritation. If blisters develop, they may require abrasion to promote healing.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

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 : 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 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".

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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 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. Keep out of reach of children.

Incompatible materials : Bases. Direct sunlight. Reducing agents.

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

Other Organotins					
USA ACGIH	ACGIH TWA (mg/m³)	0.1 mg/m³ (Tin)			
Di-n-butylbis(dodecylthio)tin (1185-81-5)					
USA ACGIH	ACGIH TWA (mg/m³)	0.1 mg/m³ as tin			
USA OSHA	OSHA PEL (TWA) (mg/m³)	0.1 mg/m³ as tin			

8.2. Exposure controls

Appropriate engineering controls : Handle in an enclosing hood with exhaust 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: LiquidAppearance: Clear liquid.Molecular mass: 635.7 g/molColor: Straw.

Odor : Characteristic odor of sulfur compound.

Odor threshold : No data available

Refractive index : 1.4992

pH : No data available Relative evaporation rate (butyl acetate=1) : No data available Melting point : No data available

Freezing point : < 0 °C

Boiling point : 160 °C @ 10 mm Hg

Flash point : > 204 °C

Auto-ignition temperature : No data available

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Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapor pressure : < 0.1 mm Hg @ 25°C

Relative vapor density at 20 °C : >1 Relative density : 1.045 VOC content : < 5 %

Solubility : Insoluble in water. Reacts slowly with water.

Organic solvent: Soluble: toluene, heptane

Log Pow : No data available : No data available Log Kow No data available Viscosity, kinematic Viscosity, dynamic No data available No data available Explosive properties Oxidizing properties No data available **Explosion limits** : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

Chemical stability 10.2.

Stable.

10.3. Possibility of hazardous reactions

Reacts with moisture in air and water, slowly dodecylmercaptan and dibutyltin oxide. Direct sunlight causes slow degradation to an inorganic tin

10.4. **Conditions to avoid**

Heat. Open flame. Sparks.

10.5. Incompatible materials

Bases. Direct sunlight. Reducing agents.

10.6. **Hazardous decomposition products**

Organic acid vapors. Sulfur oxides. Tin oxides.

SECTION 11: Toxicological information

Information on toxicological effects 11.1.

Acute toxicity : Oral: Toxic if swallowed.

DI-n-BUTYLBIS(DODECYLTHIO)TIN, tech-95 (1185-81-5)				
ATE US (oral) 136.000 mg/kg body weight				
Di-n-butylbis(dodecylthio)tin (1185-81-5)				
LD50 oral rat	136 mg/kg			
ATE US (oral)	136.000 mg/kg body weight			
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Skin corrosion/irritation : Causes skin irritation. Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : Not classified : Not classified Germ cell mutagenicity Carcinogenicity Not classified Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified Specific target organ toxicity (repeated : Not classified exposure)

Aspiration hazard : Not classified

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

Symptoms/injuries after skin contact : Causes skin irritation. Organotins may be absorbed through the skin.

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

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

hazard.

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Reason for classification : Expert judgment

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 : 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

UN-No.(DOT) : 2788 DOT NA no. UN2788

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Organotin compounds, liquid, n.o.s.

(DI-n-BUTYLBIS(DODECYLTHIO)TIN)

Class (DOT) : 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132

Hazard labels (DOT) : 6.1 - Poison



Packing group (DOT) : III - Minor Danger

DOT Packaging Exceptions (49 CFR 173.xxx) : 153
DOT Packaging Non Bulk (49 CFR 173.xxx) : 203
DOT Packaging Bulk (49 CFR 173.xxx) : 241

14.3. Additional information

Other information : No supplementary information available.

Transport by sea

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel

DOT Vessel Stowage Other : 40 - Stow "clear of living quarters"

Air transport

DOT Quantity Limitations Passenger aircraft/rail : 60 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 220 L

CFR 175.75)

SECTION 15: Regulatory information

15.1. US Federal regulations

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Di-n-butylbis(dodecylthio)tin (1185-81-5)

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

15.2. International regulations

Di-n-butylbis(dodecylthio)tin (1185-81-5)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian DSL (Domestic Substances 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 the Korean ECL (Existing Chemicals List)

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)

Listed on INSQ (Mexican national Inventory of Chemical Substances)

15.3. US State regulations

DI-n-BUTYLBIS(DODECYLTHIO)TIN, tech-95(1185-81-5)					
U.S California - Propositio	n 65 - Carcinogens List	No			
U.S California - Propositio Toxicity	n 65 - Developmental	No			
U.S California - Propositio Toxicity - Female	n 65 - Reproductive	No			
U.S California - Propositio Toxicity - Male	n 65 - Reproductive	No			
Other Organotins					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	F	J.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
No	No	١	lo	No	
Di-n-butylbis(dodecylthio)tin (1185-81-5)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	F	J.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
No	No	N	lo	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::

H301	Toxic 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 : 1 Slight Hazard
Physical : 1 Slight Hazard

Prepared by safety and environmental affairs.

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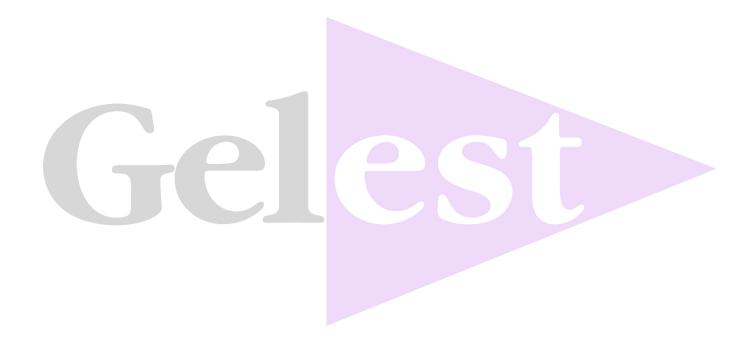
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SDS US (GHS HazCom 2012) - Custom

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

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