

Safety Data Sheet SND3340SND3340 Date of issue: 02/16/2017 Version: 1.0

1.1. Product identifier	
Product name	: DI-n-BUTYL-S,S'-BIS(2-ETHYLHEXYLMERCAPTOACETATE)TIN, tech-95
Product code	: SND3340
Product form	: Substance
Physical state	: Liquid
Formula	: C28H56O4S2Sn
Synonyms	 DI-N-BUTYLTIN STABILIZER DIBUTYLTIN BIS(2-ETHYLHEXYL THIOGLYCOLATE) DIBUTYLTIN BIS(2-ETHYLHEXYL MERCAPTOACETATE) ACETIC ACID, [(DIBUTYLSTANNYLENE)DITHIO]DI-, BIS(2-ETHYLHEXYL) ESTER 2-ETHYLHEXYL 4,4-DIBUTYL-10-ETHYL-7-OXO-8-OXA-3,5-DITHIA-4- STANNATETRADECANOATE 8-OXA-3,5-DITHIA-4-STANNATETRADECANOIC ACID, 4,4-DIBUTYL-10-ETHYL-7-OXO-, 2 ETHYLHEXYL ESTER
Chemical family	: TIN COMPOUND
1.2. Recommended use of the chemic	cal and restrictions on use
Recommended use	: Chemical intermediate For research and industrial use only
1.3. Details of the supplier of the safe	ty data sheet
GELEST, INC. 11 East Steel Road Morrisville, PA 19067 USA T 215-547-1015 - F 215-547-2484 - (M-F): 8:0 info@gelest.com - www.gelest.com	00 AM - 5:30 PM EST
1.4. Emergency telephone number	
Emergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)
SECTION 2: Hazard(s) identification	bn
2.1. Classification of the substance o	r mixture
GHS-US classification	
Acute toxicity (oral) Category 4 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2 Specific target organ toxicity (single exposure Hazardous to the aquatic environment - Acute Full text of H statements : see section 16	e) Category 3 H335
2.2. Label elements	
GHS-US labeling	
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	: GHS07 : Warning
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	 Warning H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation H400 - Very toxic to aquatic life
2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US) Precautionary statements (GHS-US)	 Warning H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation

	P301+P312 - If swallowed: Call a docto P302+P352 - If on skin: Wash with pler P332+P313 - If skin irritation occurs: G P304+P340 - If inhaled: Remove perso P337+P313 - If eye irritation persists: C P305+P351+P338 - IF IN EYES: Rinse contact lenses, if present and easy to o P321 - Specific treatment (see first aid P362+P364 - Take off contaminated cle P391 - Collect spillage P403+P233 - Store in a well-ventilated P405 - Store locked up P501 - Dispose of contents/container to	hty of soap and wate et medical advice/att in to fresh air and ke Get medical advice/at e cautiously with wate do. Continue rinsing instructions on this le othing and wash it be place. Keep contain	tention ep comfortable for breathing ttention er for several minutes. Remove abel) efore reuse er tightly closed
2.3. Hazards not otherwise classified (HM	10C)		
No additional information available			
2.4. Unknown acute toxicity (GHS US)			
No data available			
SECTION 3: Composition/Information	n on ingredients		
3.1. Substances			
Substance type	: Mono-constituent		
Name CAS No	: DI-n-BUTYL-S,S'-BIS(2-ETHYLHEXYL : 10584-98-2	IVIERCAPIOACEIA	I = I IIN, Iecn-95
		0/	
Name Di-n-butyl-S,S'-bis(2-ethylhexylmercaptoacetate)tin	Product identifier (CAS No) 10584-98-2	% 95 - 100	GHS-US classification Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Acute 1, H400
Full text of hazard classes and H-statements : se 3.2. Mixtures Not applicable	e section 16		
4.1. Description of first aid measures First-aid measures general	: Remove contaminated clothing and sho	oes. In case of accid	lent or if you feel unwell, seek
	medical advice immediately (show the available show packaging or label.		
First-aid measures after inhalation	medical advice immediately (show the	label where possible	e). If possible show this sheet; if not
First-aid measures after skin contact	 medical advice immediately (show the available show packaging or label. Remove victim to fresh air and keep at unwell, seek medical advice. Wash with plenty of soap and water. G Immediately flush eyes thoroughly with 	label where possible rest in a position co et medical advice/att water for at least 15	 e). If possible show this sheet; if not mfortable for breathing. If you feel tention. b minutes. Remove contact lenses,
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First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion 4.2. Most important symptoms and effec Symptoms/injuries after inhalation Symptoms/injuries after skin contact Symptoms/injuries after eye contact Symptoms/injuries after ingestion Chronic symptoms 4.3. Indication of any immediate medical No additional information available SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media Unsuitable extinguishing media 5.2. Special hazards arising from the suffice Fire hazard	 medical advice immediately (show the available show packaging or label. Remove victim to fresh air and keep at unwell, seek medical advice. Wash with plenty of soap and water. G Immediately flush eyes thoroughly with present and easy to do. Continue rinsir Never give anything by mouth to an units, both acute and delayed May cause respiratory irritation. Causes skin irritation. Causes serious eye irritation. Harmful if swallowed. Swallowing a sm hazard. Exposure to dust or fumes of inorganic pneumoniosis. (stannosis). attention and special treatment needed None known. 	label where possible rest in a position con et medical advice/att water for at least 15 ng. Get medical advic conscious person. G all quantity of this ma tin compounds is kn	 e). If possible show this sheet; if not mfortable for breathing. If you feel tention. is minutes. Remove contact lenses, ce/attention. Get medical advice/attention. Get medical advice attention.
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Protection during firefighting		er fire area without proper protective equipment, including respiratory protection. eye and skin contact and do not breathe vapor and mist.
SECTION 6: Accidental		,
	s, protective equipment and	emergency procedures
6.1.1. For non-emergency Protective equipment		ective equipment as described in Section 8.
Emergency procedures	•	unnecessary personnel.
6.1.2. For emergency resp Protective equipment	: Do not atte	empt to take action without suitable protective equipment. Equip cleanup crew with tection. For further information refer to section 8: "Exposure controls/personal ".
6.2. Environmental preca	autions	
Avoid release to the environmer	nt. Prevent entry to sewers and	public waters. Notify authorities if liquid enters sewers or public waters.
6.3. Methods and materia	al for containment and cleani	ng up
For containment	: Contain ar streams.	ny spills with dikes or absorbents to prevent migration and entry into sewers or
Methods for cleaning up	: Clean up a	any spills as soon as possible, using an absorbent material to collect it.
6.4. Reference to other s	ections	
See Heading 8. Exposure control	ols and personal protection.	
SECTION 7: Handling an	nd storage	
7.1. Precautions for safe		
Precautions for safe handling	: Avoid all e well-ventila	ye and skin contact and do not breathe vapor and mist. Use only outdoors or in a ated area.
Hygiene measures		taminated clothing before reuse. Wash hands and other exposed areas with mild water before eating, drinking or smoking and when leaving work.
	storage, including any incom	
Storage conditions		ainer tightly closed. Store locked up.
Incompatible materials		. Chlorine. Strong oxidizers.
Storage area	: Store in a	well-ventilated place. Store away from heat.
SECTION 8: Exposure c	ontrols/personal protect	ction
8.1. Control parameters		
	xylmercaptoacetate)tin (1058	4-98-2)
ACGIH	ACGIH TWA (mg/m ³)	0.1 mg/m ³ as tin
ACGIH	ACGIH STEL (mg/m ³)	0.2 mg/m ³ (skin) as tin
	, (00110122 (iiig/iii)	
8.2. Exposure controls		
Appropriate engineering control	s : Provide lo	cal exhaust or general room ventilation.
Personal protective equipment	: Avoid all u	nnecessary exposure. Emergency eye wash fountains and safety showers should be n the immediate vicinity of any potential exposure.
Hand protection	: Neoprene	or nitrile rubber gloves.
Eye protection	•	goggles. Contact lenses should not be worn.
Skin and body protection	: Wear suita	able protective clothing.
Respiratory protection		posure through inhalation may occur from use, respiratory protection equipment is ided. NIOSH-certified combination organic vapor/acid gas (yellow cartridge)
SECTION 9: Physical an	d chemical properties	
	physical and chemical prop	erties

Odor threshold	No data available
	: 1.506
pH	No data available
Relative evaporation rate (butyl acetate=1)	No data available
Melting point	: -25 ℃
Freezing point	No data available
Boiling point	: > 200 °C
Flash point	: 140 °C
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapor pressure	No data available
Relative vapor density at 20 °C	No data available
Relative density	: 1.12
VOC content	: < 0.3 %
Solubility	: Insoluble in water.
Log Pow	No data available
Log Kow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	No data available
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	
10.2. Chemical stability	
Stable.	
10.3. Possibility of hazardous reactions	
Avoid contact with strong oxidizers such as peroxi	des 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	on
11.1. Information on toxicological effects	
	: Oral: Harmful if swallowed.
DI-n-BUTYL-S,S'-BIS(2-ETHYLHEXYLMERCA	
ATE US (oral)	510.000 mg/kg body weight
Di-n-butyl-S,S'-bis(2-ethylhexylmercaptoaceta	
LD50 oral rat	510 mg/kg RTECS Number: WH7125000
ATE US (oral)	510.000 mg/kg body weight
	: 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
<u> </u>	None of the components in this product at concentrations >0.1% are listed by IARC, NTP,
	OSHA or ACGIH as a carcinogen
D: () () (0)(10)(0)(7)	

Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: May cause respiratory irritation.
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: May cause respiratory irritation.
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
SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: Very toxic to aquatic life.
Di-n-butyl-S,S'-bis(2-ethylhexylmercaptoace	etate)tin (10584-98-2)
LC50 fish 1	11.7 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
EC50 Daphnia 1	0.035 mg/l (Exposure time: 48 h - Species: Daphnia magna Straus)
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
Di-n-butyl-S,S'-bis(2-ethylhexylmercaptoace	etate)tin (10584-98-2)
Log Pow	1.49
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Effect on ozone layer	: No additional information available
Effect on the global warming	: No known effects from this product.
GWPmix comment	: No known effects from this product.
SECTION 13: Disposal consideration	ns
13.1. Waste treatment methods	
Sewage disposal recommendations	: Do not dispose of waste into sewer.
Wasta dianagal recommandations	: May be incinerated with scrubbers for metallic oxides and sulfur dioxide. Dispose in a safe
Waste disposal recommendations	manner in accordance with local/national regulations. Dispose of contents/container to licensed
Ecology - waste materials	
	manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.Avoid release to the environment.
Ecology - waste materials	manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.Avoid release to the environment.
Ecology - waste materials SECTION 14: Transport information	manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.Avoid release to the environment.
Ecology - waste materials SECTION 14: Transport information 14.1. UN number	 manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility. Avoid release to the environment.
Ecology - waste materials SECTION 14: Transport information 14.1. UN number UN-No.(DOT)	 manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility. Avoid release to the environment. 3082
Ecology - waste materials SECTION 14: Transport information 14.1. UN number UN-No.(DOT) DOT NA no.	 manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility. Avoid release to the environment. 3082
Ecology - waste materials SECTION 14: Transport information 14.1. UN number UN-No.(DOT) DOT NA no. 14.2. UN proper shipping name	 manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility. Avoid release to the environment. 3082 UN3082 UN3082 Environmentally hazardous substances, liquid, n.o.s. (DI-n-BUTYL-S,S'-BIS(2-
Ecology - waste materials SECTION 14: Transport information 14.1. UN number UN-No.(DOT) DOT NA no. 14.2. UN proper shipping name Transport document description	 manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility. Avoid release to the environment. 3082 UN3082 UN3082 Environmentally hazardous substances, liquid, n.o.s. (DI-n-BUTYL-S,S'-BIS(2-ETHYLHEXYLMERCAPTOACETATE)TIN), 9, III
Ecology - waste materials SECTION 14: Transport information 14.1. UN number UN-No.(DOT) DOT NA no. 14.2. UN proper shipping name Transport document description	 manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility. Avoid release to the environment. 3082 UN3082 UN3082 Environmentally hazardous substances, liquid, n.o.s. (DI-n-BUTYL-S,S'-BIS(2-ETHYLHEXYLMERCAPTOACETATE)TIN), 9, III Environmentally hazardous substances, liquid, n.o.s.

Safety Data Sheet

Hazard labels (DOT)	: 9 - Class 9 (Miscellaneous dangerous materials)
	9
Dangerous for the environment	Yes
Marine pollutant	: Yes
	\wedge
	$\langle \Psi_{\alpha} \rangle$
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203 : 241
DOT Packaging Bulk (49 CFR 173.xxx) DOT Packaging Exceptions (49 CFR 173.xxx)	: 155
DOT Symbols	: G - Identifies PSN requiring a technical name
14.3. Additional information	
Emergency Response Guide (ERG) Number	: 171
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
Air transport	
DOT Quantity Limitations Passenger aircraft/rail	: No limit
(49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49	· No limit
CFR 175.75)	
SECTION 15: Regulatory information	
15.1. US Federal regulations	
Di-n-butyl-S,S'-bis(2-ethylhexylmercaptoace	
Listed on the United States TSCA (Toxic Subst	ances Control Act) inventory
15.2. International regulations	
CANADA	
Di-n-butyl-S,S'-bis(2-ethylhexylmercaptoace	
Listed on the Canadian DSL (Domestic Substa	
EU-Regulations	
Di-n-butyl-S,S'-bis(2-ethylhexylmercaptoace	n Inventory of Existing Commercial Chemical Substances)
National regulations	
Di-n-butyl-S,S'-bis(2-ethylhexylmercaptoace	state)tin (10584-98-2)
Listed on the AICS (Australian Inventory of Che	
Listed on IECSC (Inventory of Existing Chemic	al Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Listed on the Korean ECL (Existing Chemicals	
Listed on NZIoC (New Zealand Inventory of Ch	emicals)
Listed on PICCS (Philippines Inventory of Cher	
15.3. US State regulations No additional information available	

SECTION 16: Other information

Full text of H-phrases::	
H302	Harmful if swallowed
H315	Causes skin irritation
H319 H335	Causes serious eye irritation
H335 H400	May cause respiratory irritation Very toxic to aquatic life
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.
HMIS III 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 aff	airs.
Date of issue: 02/16/2017 Version: 1.0	
SDS US (GHS HazCom 2012) - Custom	
	/ Monday, March 26, 2012 / Rules and Regulations
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