

Safety Data Sheet SND3180 Date of issue: 01/20/2015 Version: 1.0

SECTION 1: Identification of the st	ubstance/mixture and of the company/undertaking		
1.1. Product identifier			
Product form	: Substance		
Physical state	: Liquid		
Substance name	: DI-n-BUTYLDI-n-BUTOXYTIN, 95%		
Product code	: SND3180		
Formula	: C16H36O2Sn		
Synonyms	: DIBUTYLTINDIBUTOXIDE; DIBUTYLDIBUTOXYSTANNANE		
Chemical family	: ORGANOTIN		
1.2. Relevant identified uses of the su	ibstance 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 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	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: Hazards identification			
2.1. Classification of the substance o	r mixture		
Classification (GHS-US)			
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)	: 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 P302+P352 - If on skin: Wash with plenty of 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 P362 - Take off contaminated clothing and wash before reuse 		
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS-US			
No data available			
SECTION 3: Composition/informat	tion on ingredients		
3.1. Substance			
Substance type	: Multi-constituent		
Name	: DI-n-BUTYLDI-n-BUTOXYTIN, 95%		
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	9-36-8 -103-1		
Name	Product identifier	%	Classification (GHS-US)
Di-n-butyldi-n-butoxytin	(CAS No) 3349-36-8	> 95	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Other Organotins		< 5	Not classified

3.2. Mixture			
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 effe	cts, both acute and delayed		
Symptoms/injuries after inhalation	: May cause irritation to the respiratory tract. Overexposure may cause: Coughing. Headache. Nausea.		
Symptoms/injuries after skin contact	: Causes skin irritation.		
Symptoms/injuries after eye contact	: Causes serious eye irritation.		
Symptoms/injuries after ingestion	: May be harmful if swallowed.		
4.3. Indication of any immediate medica	al 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.		
5.2. Special hazards arising from the su	5.2. Special hazards arising from the substance or mixture		

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Fire ha	zard	: Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.
5.3.	Advice for firefighters	
Firefigh	ting 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.		
SECT	ION 6: Accidental release mea	asures		
6.1.	Personal precautions, protective equipment and emergency procedures			
6.1.1.	. For non-emergency personnel			
Emerge	ency procedures	: Evacuate unnecessary personnel.		
6.1.2.	For emergency responders			
Protecti	ive equipment	: Equip cleanup crew with proper protection.		
6.2.	Environmental precautions			
Prevent	t entry to sewers and public waters. Not	ify authorities if liquid enters sewers or public waters.		
6.3.	Methods and material for containment and cleaning up			
Method	s 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.

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SECTION 7: Handling and	d storage			
7.1. Precautions for safe h				
Precautions for safe handling		d areas. Avoid all eye and skin contact and do not breathe vapor and		
Hygiene measures	: Wash hands and other e smoking and when leavir	 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. Do not eat, drink or smoke when using this product. 		
7.2. Conditions for safe st	orage, including any incompatibilities			
Storage conditions	: Keep container tightly clo	used.		
Incompatible materials	: Bases. Direct sunlight. R	educing agents. Moisture. Water.		
Storage area	: Store in a well-ventilated	place. Store away from heat.		
7.3. Specific end use(s)				
No additional information available	e			
SECTION 8: Exposure co	ntrols/personal protection			
8.1. Control parameters				
Di-n-butyldi-n-butoxytin (3349	-36-8)			
USA ACGIH	ACGIH TWA (mg/m ³)	0.1 mg/m³ (Tin)		
Other Organotins				
-	ACGIH TWA (mg/m ³)	0.1 mg/m³ (Tin)		
8.2. Exposure controls				
Appropriate engineering controls	: Provide local exhaust or	general room ventilation.		
Personal protective equipment		posure. Emergency eye wash fountains and safety showers should be te vicinity of any potential exposure.		
Hand protection	: Neoprene or nitrile rubbe	ar aloves		
Eye protection		act 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		
SECTION 9: Physical and	chemical properties			
	physical and chemical properties			
Physical state	: Liquid			
Appearance	: Liquid.			
Molecular mass	: 397.15 g/mol			
Color	: Pale yellow.			
Odor	: Characteristic.			
Odor threshold	: No data available			
Refractive index	: 1.4721			
рН	: No data available			
Relative evaporation rate (butyl ad	cetate=1) : No data available			
Melting point	: No data available			
Freezing point	: < 0 °C			
Boiling point	: 136 - 138 °C @ 0.05 mm	i Hg		
Flash point	: 116 °C			
Auto-ignition temperature	: No data available			
Decomposition temperature	: No data available			
Flammability (solid, gas)	: No data available			
	0.4			

- Vapor pressure : < 0.1 mm Hg @ 25°C Relative vapor density at 20 °C
- : >1 Relative density : 1.122
 - : Insoluble in water. Reacts with water.
- Log Pow : No data available Log Kow : No data available
- Viscosity, kinematic : No data available
- Viscosity, dynamic : No data available
 - : No data available

Explosive properties

Solubility

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Oxidizing properties	: No data available
Explosive 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	
	organic tin salt. Reacts with moisture in air and water, slowly releasing butanol and dibutyltin oxide.
10.4. Conditions to avoid	
Heat. Open flame. Sparks.	
10.5. Incompatible materials	
Bases. Direct sunlight. Reducing agents. Moistu	re. Water.
10.6. Hazardous decomposition products	à
Organic acid vapors. Tin oxides.	
SECTION 11: Toxicological informat	ion
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
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 Specific target organ toxicity (single exposure)	: Not classified : Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: In animal studies with repeated oral administration, dibutyltin compounds have demonstrated toxic effects on the liver, bile duct, and immune system.
Symptoms/injuries after inhalation	: May cause irritation to the respiratory tract. Overexposure may cause: Coughing. Headache. Nausea.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed.
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.

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SECTION 13: Disposal consideratio	ns		
13.1. Waste treatment methods			
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.		
Ecology - waste materials	: Avoid release to the environment.		
SECTION 14. Transport information			
SECTION 14: Transport information			
14.1. UN number	. 2000		
UN-No.(DOT) DOT NA no.	: 3082 UN3082		
	0113082		
14.2. UN proper shipping name			
Proper Shipping Name (DOT)	: Environmentally hazardous substances, liquid, n.o.s. (DI-n-BUTYLDI-n-BUTOXYTIN)		
Department of Transportation (DOT) Hazard Classes	: 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140		
Hazard labels (DOT)	: 9 - Class 9 (Miscellaneous dangerous materials)		
DOT Symbols	: G - Identifies PSN requiring a technical name		
Packing group (DOT)	: III - Minor Danger		
DOT Packaging Exceptions (49 CFR 173.xxx)	: 155		
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203		
DOT Packaging Bulk (49 CFR 173.xxx)	: 241		
Marine pollutant	: This material when shipped by ocean vessel is a MARINE POLLUTANT.		
14.3. Additional information			
Other information Transport by sea DOT Vessel Stowage Location	No supplementary information available.		
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 (49 CFR 173.27)	: No limit		
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	9 : No limit		
SECTION 15: Regulatory informatio	n		
15.1. US Federal regulations			
Di-n-butyldi-n-butoxytin (3349-36-8)			
Listed on the United States TSCA (Toxic Subs	tances Control Act) inventory		
15.2. International regulations			
Di-n-butyldi-n-butoxytin (3349-36-8)			
	cal Substances Produced or Imported in China) an Inventory of Existing Commercial Chemical Substances) v Chemical Substances) inventory hemicals)		
15.3. US State regulations			

DI-n-BUTYLDI-n-BUTOXYTIN, 95%(3349-36-8)	
U.S California - Proposition 65 - Carcinogens List No	
U.S California - Proposition 65 - Developmental Toxicity	No
U.S California - Proposition 65 - Reproductive No Toxicity - Female No	

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DI-n-BUTYLDI-n-BUTOXYTIN, 95%(3349-36-8)				
U.S California - Proposition 65 - Reproductive Toxicity - Male		No		
Di-n-butyldi-n-butoxytin (3	349-36-8)			
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	
Other Organotins	Other Organotins			
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::		
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A	
Skin Irrit. 2	Skin corrosion/irritation Category 2	
- 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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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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