

Safety Data Sheet SND3110 Date of issue: 01/20/2015 Version: 1.0

Enabling Your lechnology	
SECTION 1: Identification of the sub	stance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Physical state	: Liquid
Substance name	DI-n-BUTYLBUTOXYCHLOROTIN, tech-95
Product code	: SND3110
Formula	: C12H27ClOSn
Synonyms	: DIBUTYLBUTOXYCHLOROSTANNANE; BUTOXYDIBUTYLCHLOROSTANNANE
Chemical family	: ORGANOTIN
1.2. Relevant identified uses of the subst	tance 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 of	data sheet
GELEST, INC.	
11 East Steel Road Morrisville, PA 19067	
USA	
T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 A info@gelest.com - www.gelest.com	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 or m	ixture
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/information	n on ingredients
3.1. Substance	
Substance type	: Mono-constituent
Name	: DI-n-BUTYLBUTOXYCHLOROTIN, tech-95

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CAS No	: 14254	4-22-9		
EC no	: 238-1	31-2		
Name		Product identifier	%	Classification (GHS-US)
Butoxydibutylchlorostannane		(CAS No) 14254-22-9	> 95	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	
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 effect	s, 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 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.
5.2. Special hazards arising from the s	ubstance 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.

SECTIO	ON 6: Accidental release measu	res
6.1.	Personal precautions, protective equip	oment and emergency procedures
6.1.1.	For non-emergency personnel	
Emergen	cy procedures :	Evacuate unnecessary personnel.
6.1.2.	For emergency responders	
Protective	e equipment :	Equip cleanup crew with proper protection.
6.2.	Environmental precautions	
Prevent e	entry to sewers and public waters. Notify a	uthorities if liquid enters sewers or public waters.
6.3.	Methods and material for containment	and cleaning up
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 Head	ding 8. Exposure controls and personal pro	ptection.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Use only in well ventilated areas. Avoid all eye and skin contact and do not breathe vapor and mist.

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Hygiene measures		posed areas with mild soap and water before eating, drinking or
	smoking and when leavin smoke when using this pr	g work. Wash contaminated clothing before reuse. Do not eat, drink or oduct.
	age, including any incompatibilities	
Storage conditions	: Keep container tightly clo	
Incompatible materials	: Bases. Direct sunlight. Re	educing 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 con	trols/personal protection	
8.1. Control parameters	· ·	
Butoxydibutylchlorostannane (1	14254-22-9)	
	CGIH TWA (mg/m ³)	0.1 mg/m ³ (Tin)
8.2. Exposure controls		S
Appropriate engineering controls	: Provide local exhaust or	reneral room ventilation.
Personal protective equipment		posure. Emergency eye wash fountains and safety showers should be
		e vicinity of any potential exposure.
Hand protection	: Neoprene or nitrile rubber	gloves.
Eye protection	: Chemical goggles. Conta	ct lenses should not be worn.
Skin and body protection	: Wear suitable protective of	clothing.
Respiratory protection	: Where exposure through	inhalation may occur from use, respiratory protection equipment is
	recommended.	
SECTION 9: Physical and o	chemical properties	
9.1. Information on basic ph	ysical and chemical properties	
Physical state	: Liquid	
Appearance	: Liquid.	
Molecular mass	: 341.48 g/mol	
Color	: Straw. Amber.	
Odor	: Characteristic.	
Odor threshold	: No data available	
Refractive index	: No data available	
рН	: No data available	
Relative evaporation rate (butyl ace	tate=1) : No data available	
Melting point	: 35 - 38 °C	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: > 110 °C	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: No data available	
Vapor pressure	: 10 mm Hg @ 134°C	
Relative vapor density at 20 °C	: No data available	
Relative density	: 1.2	
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	
Explosive limits	: No data available	
9.2. Other information		

No additional information available

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SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable.	
10.3. Possibility of hazardous reactions	
Direct sunlight causes slow degradation to an inc	organic tin salt.
10.4. Conditions to avoid	
Heat. Open flame. Sparks.	
10.5. Incompatible materials	
Bases. Direct sunlight. Reducing agents.	
10.6. Hazardous decomposition products	
n-Butanol. 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	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
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 Reason for classification	: May be harmful if swallowed.
	: 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 consideration	าร
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	

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14.2. UN proper shippi	ng name			
Marine pollutant	: This	material when shipped by oce	an vessel is a MARINE POLLUT	ANT.
14.3. Additional informati	ion			
Other information		upplementary information avai	lable	
	. 110 5			
Transport by sea				
No additional information ava	ailable			
Air transport				
No additional information ava	ailable			
SECTION 15: Regulat	ory information			
15.1. US Federal regulation	IS			
Butoxydibutylchlorostan	nane (14254-22-9)			
Listed on the United States	TSCA (Toxic Substances C	ontrol Act) inventory		
15.2. International regulation	ons			
Butoxydibutylchlorostan	nane (14254-22-9)			
Listed on the Canadian DS	L (Domestic Sustances List)		······································	
Listed on the EEC Inventor	y EINECS (European Invento	ory of Existing Commercial Ch	emical Substances)	
15.3. US State regulations				
DI-n-BUTYLBUTOXYCHLO	ROTIN, tech-95(14254-22-9			
U.S California - Proposition		No		
U.S California - Proposition	n 65 - Developmental	No		
Toxicity				
U.S California - Proposition Toxicity - Female	n 65 - Reproductive	No		
U.S California - Proposition Toxicity - Male	n 65 - Reproductive	No		
Butoxydibutylchlorostanna	ane (14254-22-9)			
U.S California -	U.S California -	U.S California -	U.S California -	No significance risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
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	: 2 Moderate Hazard
Physical	: 1 Slight Hazard

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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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