

Safety Data Sheet SNB1100 Date of issue: 11/11/2014 Version

Version: 1.0

SECTION 4. Identification of the out	beter column and of the company lundertaking	
	bstance/mixture and of the company/undertaking	
1.1. Product identifier		
Product form	: Substance	
Physical state	: Liquid	
Substance name	: BIS(2-ETHYLHEXANOATE)TIN, tech-95	
Product code	: SNB1100	
Formula		
Synonyms	: TIN (II) OCTOATE; STANNOUS 2-ETHYLHEXOATE; TIN (II) 2-ETHYLHEXANOATE; TIN BIS(2-ETHANE-1-YLHEXANOATE)	
Chemical family	: ORGANOTIN	
1.2. Relevant identified uses of the sub	ostance 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	y data sheet	
GELEST, INC. 11 East Steel Road Morrisville, PA 19067 USA T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 info@gelest.com	0 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	mixture	
Classification (GHS-US) Eye Dam. 1 H318 Repr. 2 H361 Aquatic Acute 2 H401 Full text of H-phrases: see section 16 2.2. Label elements		
GHS-US labeling Hazard pictograms (GHS-US)	: GHS05 GHS08	
Signal word (GHS-US)	: Danger	
Hazard statements (GHS-US)	: H318 - Causes serious eye damage H361 - Suspected of damaging fertility or the unborn child H401 - Toxic to aquatic life	
Precautionary statements (GHS-US)	 P201 - Obtain special instructions before use P202 - Do not handle until all safety precautions have been read and understood P280 - Wear protective gloves/protective clothing/eye protection/face protection P273 - Avoid release to the environment P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a doctor P405 - Store locked up P501 - Dispose of contents/container to licensed waste disposal facility. 	
2.3. Other hazards		
No additional information available		
2.4. Unknown acute toxicity (GHS-US)		
No doto ovoiloblo		

No data available

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SECTION 3: Composition/information on ingredients				
3.1. Substance				
Substance type			-	
Name	(-ETHYLHEXANOATE)TIN, tech-9	5	
CAS No	: 301-1	0-0		
EC no	: 206-1	08-6		
Name		Product identifier	%	Classification (GHS-US)
Bis(2-ethylhexanoate)tin		(CAS No) 301-10-0	> 95	Eye Irrit. 2A, H319 Aquatic Acute 2, H401
2-Ethylhexanoic acid		(CAS No) 149-57-5	< 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Eye Dam. 1, H318 Repr. 2, H361 Aquatic Acute 3, H402

3.2. Mixture

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	3
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 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.
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 e	ffects, 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	: May cause skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye damage.
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.		
SECTION 6: Accidental release me	asures		
6.1. Personal precautions, protective e	quipment and emergency procedures		
6.1.1. For non-emergency personnel Emergency procedures	: Evacuate unnecessary personnel.		
6.1.2. For emergency responders Protective equipment	: Equip cleanup crew with proper protection.		
6.2. Environmental precautions			

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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6.3. Methods and material for	containment and clean	ing up	
Methods for cleaning up		• •	ssible, using an absorbent material to collect it. Sweep or
5.1	shovel spills into appropriate container for disposal.		
6.4. Reference to other section	ons		
See Heading 8. Exposure controls a	nd personal protection.		
SECTION 7: Handling and s	torage		
7.1. Precautions for safe han			
Precautions for safe handling	: Avoid all e	eye and skin contact and	do not breathe vapor and mist.
Hygiene measures			reas with mild soap and water before eating, drinking or
	smoking a	and when leaving work. V	Nash contaminated clothing before reuse.
7.2. Conditions for safe stora	ge, including any incom	patibilities	
Storage conditions		tainer tightly closed.	
Incompatible materials	-	agent. Direct sunlight.	
Storage area	: Store in a	well-ventilated place. Sto	ore away from heat.
7.3. Specific end use(s)			
No additional information available			
SECTION 8: Exposure cont	rols/personal prote	ction	
8.1. Control parameters			
Bis(2-ethylhexanoate)tin (301-10-	-0)	-	
	GIH TWA (mg/m ³)		0.1 mg/m ³ (as tin)
2-Ethylhexanoic acid (149-57-5)			
	GIH TWA (mg/m³)		5 mg/m ³ (inhalable fraction and vapor)
8.2. Exposure controls			
Appropriate engineering controls	: Provide la	cal exhaust or general ro	oom ventilation.
Personal protective equipment			Emergency eye wash fountains and safety showers shoul
	available i	in the immediate vicinity	of any potential exposure.
Hand protection		or nitrile rubber gloves.	
Eye protection Skin and body protection		goggles. Contact lenses able protective clothing.	should not be worn.
Respiratory protection			nic vapor/acid gas (yellow cartridge) respirator.
		ninea compination organ	
SECTION 9: Physical and c			
9.1. Information on basic phy		oerties	
Physical state	: Liquid		
Appearance		id. Viscous.	
Molecular mass	: 405.11 g/i	moi	
Color Odor	: Amber. : Mild.		
Odor threshold	: No data a	vailable	
Refractive index	: 1.495	Vallable	
pH	: No data a	vailable	
Relative evaporation rate (butyl aceta			
Melting point	: No data a		
Freezing point	: <0°C		
Boiling point	: No data a	vailable	
Flash point	: >110 °C		
Auto-ignition temperature	: No data a	vailable	
Decomposition temperature	: No data a	vailable	
Flammability (solid, gas)	: No data a	vailable	
Vapor pressure	: No data a	vailable	
Relative vapor density at 20 °C	: No data a	vailable	
Relative density	: 1.28		
VOC content	: <3%		

Solubility

: Insoluble in water.

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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			
SECTION 10: Stability and reactivity			
10.1. Reactivity			
No additional information available			
10.2. Chemical stability			
-	ert atmosphere. Oxidizes slowly in the presence of air.		
10.3. Possibility of hazardous reactions			
Direct sunlight causes slow degradation to an ino	raanic tin salt.		
10.4. Conditions to avoid			
Heat. Open flame. Sparks.			
10.5. Incompatible materials			
Oxidizing agent. Direct sunlight.			
10.6. Hazardous decomposition products			
Organic acid vapors. Tin oxides.			
SECTION 11: Toxicological informati	on		
11.1. Information on toxicological effects			
Acute toxicity	: Not classified		
Bis(2-ethylhexanoate)tin (301-10-0)			
LD50 oral rat	5810 mg/kg		
ATE US (oral)	5810.000 mg/kg body weight		
2-Ethylhexanoic acid (149-57-5)			
LD50 oral rat	1600 mg/kg		
LD50 dermal rabbit	1140 mg/kg		
ATE US (oral) ATE US (dermal)	1600.000 mg/kg body weight 1140.000 mg/kg body weight		
Skin corrosion/irritation	: Not classified		
Serious eye damage/irritation	: Causes serious eye damage.		
Respiratory or skin sensitization	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.		
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	: May cause skin irritation.		
Symptoms/injuries after eye contact	: Causes serious eye damage.		
Symptoms/injuries after ingestion	: May be harmful if swallowed.		
SECTION 12: Ecological information			
12.1. Toxicity			
Ecology - water	: Toxic to aquatic life.		
Bis(2-ethylhexanoate)tin (301-10-0)			

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Bis(2-ethylhexanoate)tin (301-10-0)		
ErC50 (algae)	6.9 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata-green algae)	
2-Ethylhexanoic acid (149-57-5)		
LC50 fish 1	70 mg/l (Exposure time: 96 h - Species: Pimephales promelas)	
EC50 Daphnia 1	85.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
12.2. Persistence and degradability		
No additional information available		
12.3. Bioaccumulative potential		
2-Ethylhexanoic acid (149-57-5)		
Log Pow	2.7	
12.4. Mobility in soil		
No additional information available		
12.5. Other adverse effects	This substance may be becaute to the environment	
	 This substance may be hazardous to the environment. No additional information available 	
Effect on ozone layer Effect on the global warming	: No known ecological damage caused by this product.	
SECTION 13: Disposal consideration	S	
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		
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		
Bis(2-ethylhexanoate)tin (301-10-0)		
Listed on the United States TSCA (Toxic Substa	inces Control Act) inventory	
2-Ethylhexanoic acid (149-57-5)		
Listed on the United States TSCA (Toxic Substa		
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.	
15.2. International regulations		
Bis(2-ethylhexanoate)tin (301-10-0)		
Listed on the AICS (Australian Inventory of Cher		
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 the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals)		
Listed on PICCS (Philippines Inventory of Chem		

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2 Ethydhavanaia aaid (14)	0 67 6)			
2-Ethylhexanoic acid (149-57-5) Listed on the AICS (Australian Inventory of Chemical Substances)				
	L (Domestic Sustances List		h:)	
		tances Produced or Imported in C		
		tory of Existing Commercial Chem	lical Substances)	
Listed on the Japanese EN Listed on the Korean ECL		cal Substances) Inventory		
	land Inventory of Chemicals	.)		
Listed on PICCS (Philippin				
	e and Transfer Register La			
	L (Ingredient Disclosure List			
	_ (/		
15.3. US State regulations				
BIS(2-ETHYLHEXANOATE	TIN toob 05(201 10 0)			
U.S California - Proposition		No		
	•			
U.S California - Proposition Toxicity	n 65 - Developmental	No		
U.S California - Proposition	n 65 - Reproductive	No		
Toxicity - Female				
U.S California - Proposition	n 65 - Reproductive	No		
Toxicity - Male				
Bis(2-ethylhexanoate)tin (3	301-10-0)			
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 -	Reproductive Toxicity -	
		Female	Male	
No	No	No	No	
2-Ethylhexanoic acid (149-	.57-5)			
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 -	Reproductive Toxicity -	()
		Female	Male	
N			NI-	
No	No	No	No	
Bis(2-ethylhexanoate)tin (3	301-10-0)			
U.S Massachusetts - Righ	t To Know List			
U.S Texas - Effects Screet	ning Levels - Long Term			
U.S Texas - Effects Screening Levels - Short Term				
2-Ethylhexanoic acid (149-57-5)				
U.S Minnesota - Chemicals of High Concern				
U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour				
U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual				
U.S New Jersey - Right to Know Hazardous Substance List U.S North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour				
		rations - 8-Hour		
U.S Texas - Effects Screen				
U.S Texas - Effects Screening Levels - Short Term				

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::

Acute toxicity (dermal) Category 4
Acute toxicity (oral) Category 4
Hazardous to the aquatic environment - Acute Hazard Category 2
Hazardous to the aquatic environment - Acute Hazard Category 3
Serious eye damage/eye irritation Category 1
Serious eye damage/eye irritation Category 2A
Reproductive toxicity Category 2

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H302	Harmful if swallowed
H312	Harmful in contact with skin
H318	Causes serious eye damage
H319	Causes serious eye irritation
H361	Suspected of damaging fertility or the unborn child
H401	Toxic to aquatic life
H402	Harmful to aquatic life

Health

: 2 Moderate Hazard - Temporary or minor injury may occur

Flammability: 1 Slight HazardPhysical: 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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