

BIS(NEODECANOATE)TIN, tech-90

Safety Data Sheet SNB1710 Date of issue: 08/19/2015 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. **Product identifier** Product form : Substance Physical state : Liquid Substance name : BIS(NEODECANOATE)TIN, tech-90 Product code · SNB1710 Formula C20H38O4Sn Synonyms : TIN(II) NEODECANOATE; STANNOUS NEODECANOATE Chemical family : ORGANOTIN 1.2. 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 1.3. Details of the supplier of the safety data sheet GELEST, INC. 11 East Steel Road Morrisville, PA 19067 USA T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 AM - 5:30 PM EST info@gelest.com - www.gelest.com 1.4. **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 2.1. **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 : P280 - Wear protective gloves/protective clothing/eye protection/face protection Precautionary statements (GHS-US) P264 - Wash hands thoroughly after handling 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 2.3. **Other hazards** No additional information available Unknown acute toxicity (GHS US) 2.4. No data available **SECTION 3: Composition/information on ingredients** 3.1. **Substance** Substance type : Multi-constituent

Name CAS No EC no	: BIS(NEODECANOATE)TIN, tech-90 : 49556-16-3 : 256-370-0			
Name		Product identifier	%	Classification (GHS-US)
Tin(2+) neodecanoate		(CAS No) 49556-16-3	> 80	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Neodecanoic acid		(CAS No) 26896-20-8	< 20	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319

3.2.	wixture
Not	applicable

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. IF exposed or concerned: Get medical advice/attention.
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, i 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	: 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 med	lical attention and special treatment needed

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	: 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	easures			
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".			
6.2. Environmental precautions				
Prevent entry to sewers and public waters. No	tify authorities if liquid enters sewers or public waters.			
C.O. Matheada and material for contain				

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 s	ections
See Heading 8. Exposure contro	ols and personal protection.
SECTION 7: Handling ar	nd storage
7.1. Precautions for safe	
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 hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.
7.2. Conditions for safe s	storage, including any incompatibilities
Storage conditions	: Keep container tightly closed.
Incompatible materials	: Oxidizing agent. Direct sunlight.
Storage area	: Store in a well-ventilated place. Store away from heat.
7.3. Specific end use(s)	
No additional information availal	ble
SECTION 8: Exposure c	ontrols/personal protection
8.1. Control parameters	
Tin(2+) neodecanoate (49556	ô-16-3)
USA ACGIH	ACGIH TWA (mg/m ³) 0.1 mg/m ³ as tin
8.2. Exposure controls	
Appropriate engineering controls	s Provide local exhaust or general room 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 an	d chemical properties
9.1. Information on basic	physical and chemical properties
Physical state	: Liquid
Appearance	: Liquid. Viscous.
Molecular mass	: 461.23 g/mol
Color	: Amber.

00	dor	:	Mild.
00	dor threshold	:	No data available
Re	efractive index	:	1.487
p⊦	1	:	No data available
Re	elative evaporation rate (butyl acetate=1)	:	No data available
Me	elting point	:	No data available
Fr	eezing point	:	< 0 °C
Bo	piling point	:	No data available
Fla	ash point	:	> 110 °C
Αι	uto-ignition temperature	:	No data available
De	ecomposition temperature	:	No data available
Fla	ammability (solid, gas)	:	No data available
Va	apor pressure	:	14 mm Hg @ 140°C
Re	elative vapor density at 20 °C	:	No data available
Re	elative density	:	1.16
V	OC content	:	< 3 %
Sc	blubility	:	Insoluble in water.
Lo	og Pow	:	No data available
Lo	og Kow	:	No data available

08/19/2015	EN (English US) SDS ID: SNB1710 4/
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.2. Persistence and degradability	
Ecology - water	: Toxic to aquatic life.
12.1. Toxicity	
SECTION 12: Ecological information	
Reason for classification	: Expert judgment
Symptoms/injuries after ingestion	: May be harmful if swallowed.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after inhalation	: May cause irritation to the respiratory tract. Overexposure may cause: Coughing. Headache. Nausea.
Aspiration hazard	: Not classified
exposure)	
Specific target organ toxicity (engale exposure)	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Reproductive toxicity	: Not classified
Germ cell mutagenicity Carcinogenicity	: Not classified : Not classified
Respiratory or skin sensitization	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Skin corrosion/irritation	: Causes skin irritation.
ATE US (oral)	2000.000 mg/kg body weight
LC50 inhalation rat	> 3000 mg/kg
LD50 dermal rabbit	> 3160 mg/kg
Neodecanoic acid (26896-20-8)	2000 mg/kg
Acute toxicity	: Not classified
11.1. Information on toxicological effects	· Not descrifted
SECTION 11: Toxicological informati	on
Organic acid vapors. Tin oxides.	
10.6. Hazardous decomposition products	
Oxidizing agent. Direct sunlight.	
10.5. Incompatible materials	
Heat. Open flame. Sparks.	
10.4. Conditions to avoid	
Direct sunlight causes slow degradation to an ino	rganic tin salt.
10.3. Possibility of hazardous reactions	
Stable in sealed containers stored under a dry ine	ert atmosphere. Oxidizes slowly in the presence of air.
10.2. Chemical stability	
No additional information available	
10.1. Reactivity	
SECTION 10: Stability and reactivity	
No additional information available	
9.2. Other information	
Explosion limits	: No data available
Explosive properties Oxidizing properties	No data available No data available
Viscosity, dynamic	: No data available

12.5. Other adverse effe	ects				
Other adverse effects		s substance may be hazardous to	the environment.		
Effect on ozone layer		additional information available			
Effect on the global warming	: No	known ecological damage caused	d by this product.		
SECTION 13: Disposa	l considerations				
13.1. Waste treatment r					
Sewage disposal recommend	dations : Do	not dispose of waste into sewer.			
Waste disposal recommenda	tions : Dis	pose in a safe manner in accorda	nce with local/national regulatio	ns.	
Ecology - waste materials	: Avc	bid release to the environment.			
SECTION 14: Transpo	rt information				
14.1. UN number					
Not regulated for transport.					
14.2. UN proper shippir	ng name				
Not applicable					
14.3. Additional informati	on				
Other information		supplementary information availal	ble.		
Transport by sea					
No additional information ava	ilable				
Air transport No additional information ava	ailable				
SECTION 15: Regulate					
15.1. US Federal regulation	S				
Tin(2+) neodecanoate (49					
Listed on the United States	TSCA (Toxic Substances (Control Act) inventory			
Neodecanoic acid (26896-					
Listed on the United States TSCA (Toxic Substances Control Act) inventory					
15.2. International regulation	ons				
Tin(2+) neodecanoate (49	556-16-3)				
Listed on the Canadian ND					
		tances Produced or Imported in C tory of Existing Commercial Chen			
Listed on the Japanese EN	CS (Existing & New Chemi	cal Substances) inventory			
Listed on NZIOC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)					
Neodecanoic acid (26896-20-8)					
Not listed on the AICS (Aus		al Substances)			
Listed on IECSC (Inventory	of Existing Chemical Subs	tances Produced or Imported in C	China)		
Listed on the Canadian DSI					
	Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)				
		tory of Existing Commercial Chen	nical Substances)		
15.3. US State regulations					
BIS(NEODECANOATE)TIN, U.S California - Proposition		No			
U.S California - Proposition	•	No			
Toxicity					
U.S California - Proposition Toxicity - Female	65 - Reproductive	No			
U.S California - Proposition Toxicity - Male	1 65 - Reproductive	No			
Tin(2+) neodecanoate (4955	56-16-3)				
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		
08/19/2015		Inglish US)	SDS ID: SNB1710	5/6	
00/13/2010					

BIS(NEODECANOATE)TIN, tech-90

Safety Data Sheet

Tin(2+) neodecanoate (49556-16-3)				
No	No	No	No	
Neodecanoic acid (26896-20-8)				
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	

SECTION 16: Other information

: Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Abbreviations and acronyms 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 Tox. 4 (Oral)		Acute toxicity (oral) Category 4
Eye Irrit. 2A		Serious eye damage/eye irritation Category 2A
Skin Irrit. 2		Skin corrosion/irritation Category 2
H302		Harmful if swallowed
H315		Causes skin irritation
H319		Causes serious eye irritation
HMIS III Rating Health Flammability Physical	: 2 Moderate : 1 Slight Ha : 1 Slight Ha	
Prepared by safety and env	ironmental affairs.	
Date of issue: 08/19/2015	Version: 1.0	

SDS US (GHS HazCom 2012) - Custom

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

The information contained in this document has been gathered from reference materials and/or Gelest, Inc. test data and is to the best knowledge and belief of Gelest, Inc. accurate and reliable. Such information is offered solely for your consideration, investigation and verification. It is not suggested or guaranteed that the hazard precautions or procedures described are the only ones which exist. Gelest, Inc. makes no warranties, express or implied, with respect to the use of such information and assumes no responsibility therefore. Information on this safety data sheet is not intended to constitute a basis for product specifications.

© 2015 Gelest Inc. Morrisville, PA 19067