

Safety Data Sheet SND4450

Date of issue: 10/15/2015 Version: 1.0

SECTION 4. Identification of the cut	action a line and of the company lundertaking			
1.1. Product identifier	ostance/mixture and of the company/undertaking			
Product form	· Substance			
	: Substance : Solid			
Physical state				
Substance name	: DIOCTYL(MALEATE)TIN, tech-95			
Product code	: SND4450			
Formula	: C20H36O4Sn			
Synonyms	: DI-N-OCTYL-1,3,2-DIOXASTANNAPIN-4,7-DIONE; DIOXASTANNEPIN(1,3,2)-4,7-DIONE, 2,2-DIOCTYL-; DI-N-OCTYLTIN MALEATE			
Chemical family	: TIN COMPOUND			
1.2. Relevant identified uses of the subs	stance 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	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 - 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 (Intern	national)		
SECTION 2: Hazards identification				
2.1. Classification of the substance or n	nixture			
GHS-US classification				
Not classified				
GHS-US labeling				
No labeling applicable				
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
No data available				
SECTION 3: Composition/Information	on on ingredients			
3.1. Substance				
Substance type	: Mono-constituent			
Name	: DIOCTYL(MALEATE)TIN, tech-95			
CAS No	: 16091-18-2			
EC no	: 240-253-6			
	Product identifier %	GHS-US classification		
Dioctyl(maleate)tin	(CAS No) 16091-18-2 90 - 100	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 medical advice immediately (show the label where possible). If available show packaging or label 			

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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, 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 eff	fects, both acute and delayed
Symptoms/injuries after inhalation	: May cause irritation to the respiratory tract.
Symptoms/injuries after skin contact	: May cause skin irritation.
Symptoms/injuries after eye contact	: May cause eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed.
Chronic symptoms	: Exposure to dust or fumes of inorganic tin compounds is known to cause a benign pneumoniosis. (stannosis).
4.3. Indication of any immediate medi	cal attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Foam. Carbon dioxide. Dry chemical.
Unsuitable extinguishing media	None known.
5.2. Special hazards arising from the s	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	: Exercise caution when fighting any chemical fire. Use water spray to cool exposed surfaces.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Avoid contact with skin and eyes. Do not breathe dust.
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	
•	tify authorities if product enters sewers or public waters.
6.3. Methods and material for contain	ment 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	: Sweep or shovel spills into appropriate container for disposal.
6.4. Reference to other sections	
See Heading 8. Exposure controls and person	al protection.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid contact with skin and eyes. Do not breathe dust. Avoid dust formation. Provide local exhaust or general room ventilation to minimize exposure to dust.
Hygiene measures	: Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, inclu	
Storage conditions	: Keep container tightly closed.
Incompatible materials	: Oxidizing agent.
Storage area	: Store in a well-ventilated place. Store away from heat.
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- 7.3. Specific end use(s)
- No additional information available

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SECTION 8: Exposure controls/personal protection

8	.1.	Control	parameters	

Dioctyl(maleate)tin (16091-1	8-2)	
USA ACGIH	ACGIH TWA (mg/m³)	0.1 mg/m³ as tin
USA OSHA	OSHA PEL (TWA) (mg/m ³)	0.1 mg/m ³ as tin
8.2. Exposure controls		
Appropriate engineering controls	: Provide local ex	haust or general room ventilation.
Personal protective equipment		essary exposure. Emergency eye wash fountains and safety showers should be immediate vicinity of any potential exposure.
Hand protection	: Neoprene or nit	rile rubber gloves.
Eye protection : Chemical goggles. Contact lenses should not be worn.		
Skin and body protection	: Wear suitable p	rotective clothing.
Respiratory protection		e through inhalation may occur from use, respiratory protection equipment is NIOSH-certified dust and mist (orange cartridge) respirator.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	chen	nical properties
Physical state	:	Solid
Appearance	:	Powder.
Molecular mass	:	459.19 g/mol
Color	:	White to off-white.
Odor	:	Odorless.
Odor threshold	:	No data available
Refractive index		No data available
рН	:	No data available
Relative evaporation rate (butyl acetate=1)	:	No data available
Melting point	1	31 - 39 °C
Freezing point	:	No data available
Boiling point	:	> 200 °C
Flash point	:	> 204 °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	:	1.37
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

SECTI	ON 10: Stability and reactivity
10.1.	Reactivity
No additi	onal information available
10.2.	Chemical stability
Stable.	
10.3.	Possibility of hazardous reactions
No additi	onal information available

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10.4. Conditions to avoid	
None known.	
10.5. Incompatible materials	
Oxidizing agent.	
10.6. Hazardous decomposition products	
Organic acid vapors. Tin oxides.	
SECTION 11: Toxicological information	on
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Dioctyl(maleate)tin (16091-18-2)	
LD50 oral rat	4500 mg/kg
ATE US (oral)	4500.000 mg/kg body weight
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
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	: Not classified
exposure)	
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: May cause irritation to the respiratory tract.
Symptoms/injuries after skin contact	: May cause skin irritation.
Symptoms/injuries after eye contact	: May cause eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed.
Chronic symptoms	: Exposure to dust or fumes of inorganic tin compounds is known to cause a benign
	pneumoniosis. (stannosis).
SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2 Development degradability	
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 bazardous to the environment
Effect on ozone layer	 This substance may be hazardous to the environment. No additional information available
Effect on the global warming	: No known ecological damage caused by this product.
	. איז אוזטיאון בטוטאַנגם עמווומעב במשבע שי נוווג אוטעענו.
SECTION 13: Disposal consideration	IS
13.1. Waste treatment methods	
Sewage disposal recommendations	: Do not dispose of waste into sewer.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of solid materials or residues at a licensed site.
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	

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14.3. Additional information	on					
ther information : No supplementary information available.						
Transport by sea						
No additional information ava	ilable					
Air transport						
No additional information ava	ilable					
SECTION 15: Regulate	ory information					
15.1. US Federal regulation	S					
Dioctyl(maleate)tin (16091	-18-2)					
Listed on the United States	TSCA (Toxic Substances	Control Act) inventory			
15.2. International regulation	ons					
Dioctyl(maleate)tin (16091	-18-2)					
Listed on the AICS (Australi	an Inventory of Chemical	Substances	;)			
Listed on the Canadian DSI						
Listed on IECSC (Inventory Listed on the EEC inventory						
Listed on the Japanese EN	CS (Existing & New Chem)	ical Substa	nces) inventory	nemical Substances		
Listed on the Korean ECL (I	Existing Chemicals List)					
Listed on NZIoC (New Zeal	and Inventory of Chemical	s)				
Listed on PICCS (Philippine	es Inventory of Chemicals a	and Chemic	al Substances)			
15.3. US State regulations						
DIOCTYL(MALEATE)TIN, te	ch-95(16091-18-2)					
U.S California - Proposition		No				
U.S California - Proposition 65 - Developmental Toxicity		No				
U.S California - Proposition Toxicity - Female		No				
U.S California - Proposition Toxicity - Male	65 - Reproductive	No				
Dioctyl(maleate)tin (16091-1	18-2)					
U.S California -	U.S California -		California -	U.S California -		Non-significant risk level
Proposition 65 -	Proposition 65 - Developmental Toxicity		sition 65 -	Proposition 65 -		(NSRL)
Carcinogens List		Fema	ductive Toxicity - le	Reproductive Toxicity Male	y -	

SECTION 16: Other information

No

Abbreviations and acronyms

No

: 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.

No

HMIS III Rating

Health
Flammability
Physical

- : 2 Moderate Hazard Temporary or minor injury may occur
- : 1 Slight Hazard
- : 0 Minimal Hazard

No

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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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