

Safety Data Sheet SND3384 Date of issue: 06/15/2017 Version: 1.0

SECTION 1: Identification	
1.1. Product identifier	
Product name	: DICYCLOHEXYLDIMETHYLTIN
Product code	: SND3384
Product form	: Substance
Physical state	: Liquid
Formula	: C14H28Sn
Synonyms	: DICYCLOHEXYLTINDIMETHYL TIN, DICYCLOHEXYLDIMETHYL- DICYCLOHEXYLDIMETHYLSTANNANE
Chemical family	: ORGANOTIN
1.2. Recommended use of the chemica	l and restrictions on use
Recommended use	: Chemical intermediate For research use only
1.3. Details of the supplier of the safety	data sheet
<b>GELEST, INC.</b> 11 East Steel Road Morrisville, PA 19067 <b>USA</b> T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 <u>info@gelest.com</u> - <u>www.gelest.com</u>	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: Hazard(s) identification	
2.1. Classification of the substance or r	nixture
GHS-US classification	
Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2	H315 H319
Full text of H statements : 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)	<ul> <li>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 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 P3021 - Specific treatment (see first aid instructions on this label) P362+P364 - Take off contaminated clothing and wash it before reuse</li> </ul>
2.3. Hazards not otherwise classified (H	INOC)

2.4. Unknown acute toxicity (GHS US)

No data available

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SECTION 3: Composition/Informa 3.1. Substances				
Substance type	: Mult	i-constituent		
Name		YCLOHEXYLDIMETHYLTIN		
CAS No	: 355	69-06-3		
Name		Product identifier	%	GHS-US classification
Dicyclohexyldimethyltin		(CAS No) 35569-06-3	95 - 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Other Organotins			0 - 5	Not classified
Full text of hazard classes and H-statements	: see sectio	n 16		
B.2. Mixtures				
Not applicable				
4.1. Description of first aid measures	S			
First-aid measures general	med	nove contaminated clothing and shoes. lical advice immediately (show the label lable show packaging or label.		
First-aid measures after inhalation		nove victim to fresh air and keep at rest ce/attention.	in a position con	nfortable for breathing. Get medic
First-aid measures after skin contact		sh with plenty of soap and water. Get m		
First-aid measures after eye contact	pres	ediately flush eyes thoroughly with wate ent and easy to do. Continue rinsing. G	et medical advic	e/attention.
First-aid measures after ingestion	: Nev	er give anything by mouth to an uncons	cious person. G	et medical advice/attention.
I.2. Most important symptoms and e				
Symptoms/effects after inhalation		cause irritation to the respiratory tract.		
Symptoms/effects after skin contact	thro	ses skin irritation. May be harmful in co ugh the skin.	ntact with skin. C	Organotins may be absorbed
Symptoms/effects after eye contact		ses serious eye irritation.		
Symptoms/effects after ingestion	: May	be harmful if swallowed.		
		on and special treatment needed	irritation If blict	are develop they may require
Note to physician: Application of corticostero abrasion to promote healing. SECTION 5: Firefighting measure	id creams h		irritation. If bliste	ers develop, they may require
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Storage area

Methods for cleaning up	: Clean up any spills as soon as possible, using an absorbent material to collect it.
6.4. Reference to other sections	
See Heading 8. Exposure controls and personal	protection.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
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 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, includi	ng any incompatibilities
Storage conditions	: Keep container tightly closed.
Incompatible materials	: Direct sunlight. Oxidizing agent.

: Store in a well-ventilated place. Store away from heat.

SECTION 8: Exposure controls/personal protection			
8.1. Control parameters			
Other Organotins			
ACGIH	ACGIH TWA (mg/m³)		0.1 mg/m <sup>3</sup> as tin
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )		0.1 mg/m³ as tin
Dicyclohexyldimethyltin (35569-06-3)			
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )		0.1 mg/m <sup>3</sup> as tin
t.			
8.2. Exposure controls			
Appropriate engineering controls	Handle in	an enclosing hood with exha	aust ventilation.
Personal protective equipment		innecessary exposure. Eme n the immediate vicinity of a	rgency eye wash fountains and safety showers should be ny potential exposure.

	available in the infinediate 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 and chemical properties			
9.1. Information on basic physical and chemical properties			
Physical state : Liquid			
Appearance	: Clear liquid.		
Molecular mass	: 315.07 g/mol		
Color	: Straw.		
Odor	: Mild.		
Odor threshold	: No data available		
Refractive index	: 1.5185		
рН	: No data available		
Relative evaporation rate (butyl acetate=1)	: <1		
Melting point	: No data available		
Freezing point	: <0°C		
Boiling point	: > 100 °C @ 10 mm Hg		
Flash point	: >65 °C		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: No data available		
Vapor pressure	: <1 mm Hg @ 20°C		
Relative vapor density at 20 °C	: >1		
Relative density	: 1.21		
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		
Explosion 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.			
<b>10.3. Possibility of hazardous reactions</b> Direct sunlight causes degradation to an inorgan	ic tin salt		
10.4. Conditions to avoid			
Heat. Open flame. Sparks.			
10.5. Incompatible materials			
Direct sunlight. Oxidizing agent.			
10.6. Hazardous decomposition products			
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		
	None of the components in this pr OSHA or ACGIH as a carcinogen	oduct at concentrations >0.1% are listed by IARC, N	TP,
Reproductive toxicity	: Not classified		
Specific target organ toxicity – single exposure	: Not classified		
Specific torget orgen tovicity repeated	: Not classified		
Specific target organ toxicity – repeated exposure			
Aspiration hazard	: Not classified		
Symptoms/effects after inhalation		ory tract. May be harmful if inhaled.	
Symptoms/effects after skin contact		nful in contact with skin. Organotins may be absorbe	ed
	through the skin.	and an ophate with skin. Organotins may be absolute	
Symptoms/effects after eye contact	: Causes serious eye irritation.		
Symptoms/effects after ingestion	: May be harmful if swallowed.		
Reason for classification	: Expert judgment		
SECTION 12: Ecological information			
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			
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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 effects from this product.
GWPmix comment	: No known effects from this product.
<b>SECTION 13: Disposal consideration</b>	ns
13.1. Waste treatment methods	
Sewage disposal recommendations	: Do not dispose of waste into sewer.
Product/Packaging 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	
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	n
15.1. US Federal regulations	
DICYCLOHEXYLDIMETHYLTIN (35569-06-3)	
TSCA Exemption/Exclusion	CAUTION: This material is supplied for research and development purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and
	must meet the requirements of the exemption, including supervision by a
	"technically qualified individual" as defined by 40 CFR 720.3(ee). The use
	of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is not permitted in the United States.
L	
Dicyclohexyldimethyltin (35569-06-3)	
Not listed on the United States TSCA (Toxic St	ubstances Control Act) inventory

#### 15.2. International regulations

**CANADA** No additional information available

EU-Regulations No additional information available

National regulations No additional information available

#### 15.3. US State regulations

No additional information available

#### **SECTION 16: Other information**

Full text of H-phrases::

H315	Causes skin irritation
H319	Causes serious eye irritation

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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; GHS: The Globally Harmonized System of Classification and Labelling.
HMIS III Rating		
Health	:	3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	:	2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)
Physical	:	0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
5		
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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