

Safety Data Sheet SND3253 Date of issue: 04/13/2016 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Product form : Substance Physical state : Solid

Substance name : DI-t-BUTYLDICHLOROTIN

Product code : SND3253 Formula : C8H18Cl2Sn

: DI-t-BUTYLTINDICHLORIDE; DI-t-BUTYLDICHLOROSTANNANE Synonyms

: ORGANOTIN Chemical family

Relevant identified uses of the substance or mixture and uses advised against

: Chemical intermediate Use of the substance/mixture

For research use only

Details of the supplier of the safety data sheet

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SECTION 2: Hazards identification

Classification of the substance or mixture

GHS-US classification

Acute Tox. 3 (Oral) H301 Acute Tox. 3 (Dermal) H311 Acute Tox. 3 (Inhalation:dust,mist) H331 Skin Corr. 1B H314 Eye Dam. 1 Full text of H statements : see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)





GHS05

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled

H314 - Causes severe skin burns and eye damage

Precautionary statements (GHS-US) : P280 - Wear protective gloves/protective clothing/eye protection/face protection

P260 - Do not breathe dust, mist

P264 - Wash hands thoroughly after handling

P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area

P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting P301+P310 - If swallowed: Immediately call a POISON CENTER

P303+P361+P353 - If on skin (or hair): take off immediately all contaminated clothing. rinse

skin with water/shower

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing 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 POISON CENTER

P321 - Specific treatment (see first aid instructions on this label)

P361 - Take off immediately all contaminated clothing P363 - Wash contaminated clothing before reuse

P403+P233 - Store in a well-ventilated place. Keep container tightly closed

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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 data available

SECTION 3: Composition/Information on ingredients

3.1. Substance

Substance type : Multi-constituent

Name : DI-t-BUTYLDICHLOROTIN

CAS No : 19429-30-2

Name	Product identifier	%	GHS-US classification
Di-t-butyldichlorotin	(CAS No) 19429-30-2	95 - 100	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314 Eye Dam. 1, H318
Other Organotins		0 - 5	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 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. Immediately

call a poison center or doctor/physician.

First-aid measures after skin contact : Wash with plenty of soap and water. Get immediate 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 immediate medical advice/attention.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Immediately call a poison center or

doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Causes severe skin burns and eye damage.

Symptoms/injuries after inhalation : Toxic if inhaled. May cause irritation to the respiratory tract. Danger of serious damage to

health by prolonged exposure through inhalation.

Symptoms/injuries after skin contact : Toxic in contact with skin. Causes (severe) skin burns. Organotins may be absorbed through

the skin. Repeated exposure to this material can result in absorption through skin causing

significant health hazard.

Symptoms/injuries after eye contact : Causes serious eye damage.

Symptoms/injuries after ingestion : Toxic if swallowed. Swallowing a small quantity of this material will result in serious health

hazard.

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.

Unsuitable extinguishing media : None known.

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 : 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.

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SECTION 6: Accidental release measures

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. Notify authorities if product enters sewers or public waters.

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 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 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, including any incompatibilities

Storage conditions : Keep container tightly closed. Store locked up.

Incompatible materials : Acids. Direct sunlight. Oxidizing agent.

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 controls/personal protection

8.1. Control parameters

Di-t-butyldichlorotin (19429-30-2)			
ACGIH TWA (mg/m³)		0.1 mg/m³ as tin	
OSHA PEL (TWA) (mg/m³)		0.1 mg/m³ as tin	
Other Organotins			
ACGIH TWA (mg/m³)		0.1 mg/m³ as tin	
OSHA PEL (TWA) (mg/m³)		0.1 mg/m³ as tin	
	ACGIH TWA (mg/m³) OSHA PEL (TWA) (mg/m³)	ACGIH TWA (mg/m³) OSHA PEL (TWA) (mg/m³) ACGIH TWA (mg/m³)	

8.2. Exposure controls

Appropriate engineering controls : Handle in an enclosing hood with exhaust 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 or face shield. 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 : Solid
Appearance : Solid.
Molecular mass : 303.83 g/mol
Color : White.

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Odor : characteristic. Odor threshold : No data available Refractive index : No data available : No data available рΗ Relative evaporation rate (butyl acetate=1) : No data available Melting point : 42 - 43 °C Freezing point : No data available : 66 °C @ 3 mm Hg Boiling point

Flash point : 113 °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 : > 1Relative density : > 1VOC content : < 3 %

: Insoluble in water. Solubility Log Pow No data available Log Kow No data available No data available Viscosity, kinematic 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.

10.3. Possibility of hazardous reactions

Direct sunlight causes degradation to an inorganic tin salt.

10.4. Conditions to avoid

Heat. Open flame. Sparks.

10.5. Incompatible materials

Acids. Direct sunlight. Oxidizing agent.

10.6. Hazardous decomposition products

Organic acid vapors. Tin oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation:dust,mist: Toxic if inhaled.

DI-t-BUTYLDICHLOROTIN (19429-30-2)			
ATE US (oral)	100.000 mg/kg body weight		
ATE US (dermal)	300.000 mg/kg body weight		
ATE US (dust, mist) 0.500 mg/l/4h			
Di-t-butyldichlorotin (19429-30-2)			
ATE US (oral)	100.000 mg/kg body weight		
ATE US (dermal)	300.000 mg/kg body weight		
ATE US (gases)	700.000 ppmV/4h		
ATE US (vapors)	3.000 mg/l/4h		
ATE US (dust, mist)	0.500 mg/l/4h		

Skin corrosion/irritation : Causes severe skin burns and eye damage.

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Serious eye damage/irritation : Causes serious eye damage.

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 : Toxic if inhaled. May cause irritation to the respiratory tract. Danger of serious damage to

health by prolonged exposure through inhalation.

Symptoms/injuries after skin contact : Toxic in contact with skin. Causes (severe) skin burns. Organotins may be absorbed through

the skin. Repeated exposure to this material can result in absorption through skin causing

significant health hazard.

Symptoms/injuries after eye contact : Causes serious eye damage.

Symptoms/injuries after ingestion : Toxic if swallowing a small quantity of this material will result in serious health

hazard.

Reason for classification : Expert judgment

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : This material is toxic to wildlife and fish.

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 considerations

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

contents/container to licensed waste disposal facility.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

14.1. UN number

UN-No.(DOT) : 2923 DOT NA no. UN2923

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Corrosive solids, toxic, n.o.s.

(DI-t-BUTYLDICHLOROTIN)

Class (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136

Hazard labels (DOT) : 8 - Corrosive 6.1 - Poison



DOT Symbols : G - Identifies PSN requiring a technical name

Packing group (DOT) : II - Medium Danger

DOT Packaging Exceptions (49 CFR 173.xxx) : 154

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DOT Packaging Non Bulk (49 CFR 173.xxx) : 212 DOT Packaging Bulk (49 CFR 173.xxx) : 240

14.3. Additional information

Emergency Response Guide (ERG) Number : 154

Other information : No supplementary information available.

Transport by sea

DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this

section is exceeded

DOT Vessel Stowage Other : 40 - Stow "clear of living quarters"

Air transport

DOT Quantity Limitations Passenger aircraft/rail : 15 kg

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 50 kg

CFR 175.75)

SECTION 15: Regulatory information

15.1. US Federal regulations

DI-t-BUTYLDICHLOROTIN (19429-30-2)	
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

Di-t-butyldichlorotin (19429-30-2)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

Di-t-butyldichlorotin (19429-30-2)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

15.3. US State regulations

DI-t-BUTYLDICHLOROTIN(19429-30-2)		
U.S California - Proposition 65 - Carcinogens List	No	
U.S California - Proposition 65 - Developmental Toxicity	No	
U.S California - Proposition 65 - Reproductive Toxicity - Female	No	
U.S California - Proposition 65 - Reproductive Toxicity - Male	No	

Di-t-butyldichlorotin (19429-30-2)

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	Non-significant risk level (NSRL)
No	No	No	No	

Other Organotins

outer or garrounte				
U.S California -	U.S California -	U.S California -	U.S California -	Non-significant 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	

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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::

H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H331	Toxic if inhaled

HMIS III Rating

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is

given

Flammability : 1 Slight Hazard
Physical : 0 Minimal 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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