

# SAFETY DATA SHEET

Revision Date 26-Mar-2024

**Revision Number** 3

# 1. Identification

### **Product Name**

# Dimethyltin dichloride

## Cat No. : A17661

CAS No Synonyms

Recommended Use Uses advised against Dichlorodimethyltin.; Dimethyldichlorostannane Laboratory chemicals.

st Food, drug, pesticide or biocidal product use.

753-73-1

### Details of the supplier of the safety data sheet

### <u>Company</u>

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

### Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

## 2. Hazard(s) identification

### **Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Category 3
Category 3
Category 2
Category 1
Category 1
Category 1B
Category 1
em, Liver, Kidney, Blood.
-

### Label Elements

### Signal Word Danger

### **Hazard Statements**

Fatal if inhaled

Causes severe skin burns and eye damage May damage fertility or the unborn child Causes damage to organs through prolonged or repeated exposure Toxic if swallowed or in contact with skin



### Precautionary Statements Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wear respiratory protection Response Immediately call a POISON CENTER or doctor/physician Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a POISON CENTER or doctor/physician Skin Wash contaminated clothing before reuse IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Ingestion Rinse mouth Do NOT induce vomiting Storage Store locked up Store in a well-ventilated place. Keep container tightly closed

### Disposal

Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC)

### <u>Hazards not otherwise classified (HNOC)</u>

Corrosive to the respiratory tract

# 3. Composition/Information on Ingredients

Component	CAS No	Weight %
Stannane, dichlorodimethyl-	753-73-1	95

## 4. First-aid measures

**General Advice** 

Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.
Ingestion	Do NOT induce vomiting. Call a physician or poison control center immediately.
Most important symptoms and effects	Causes burns by all exposure routes. Difficulty in breathing. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting
Notes to Physician	Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower Sensitivity to Mechanical Impac	No data available t No information available
Sensitivity to Static Discharge	No information available

### **Specific Hazards Arising from the Chemical**

The product causes burns of eyes, skin and mucous membranes.

### Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Metal oxides. Hydrogen chloride gas.

### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

<u>NFPA</u> Health 4	Flammability 1	Instability 0	Physical hazards N/A
	6. Accidental rel	ease measures	
Personal Precautions	Evacuate personnel to safe areas. Use personal protective equipment as required. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid dust formation.		
Environmental Precautions		into surface water or sanitary s	v material to contaminate ground sewer system. See Section 12 for

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

# 7. Handling and storage

Handling

Do not get in eyes, on skin, or on clothing. Do not ingest. If swallowed then seek immediate medical assistance. Use only under a chemical fume hood. Wear personal protective equipment/face protection. Do not breathe (dust, vapor, mist, gas). Avoid dust formation.

Storage.

Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Store under an inert atmosphere. Incompatible Materials. Water. Strong oxidizing agents.

### 8. Exposure controls / personal protection

### Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH	Mexico OEL (TWA)
Stannane, dichlorodimethyl-	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.2 mg/m <sup>3</sup> Skin	(Vacated) TWA: 0.1 mg/m³ Skin	IDLH: 25 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.2 mg/m <sup>3</sup>

<u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration NIOSH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/face Protection	Tight sealing safety goggles. Face protection shield.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Recommended Filter type:	Type A. Brown.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties				
Physical State	Crystalline Powder			
Appearance	White			
Odor	No information available			
Odor Threshold	No information available			
рН	No information available			
Melting Point/Range	103 - 110 °C / 217.4 - 230 °F			
Boiling Point/Range	188 - 190 °C / 370.4 - 374 °F			
Flash Point	No information available			
Evaporation Rate	Not applicable			
Flammability (solid,gas)	No information available			
Flammability or explosive limits				
Upper	No data available			
Lower	No data available			
Vapor Pressure	No information available			
Vapor Density	Not applicable			
Specific Gravity	No information available			
Solubility	Soluble			
Partition coefficient; n-octanol/water	No data available			

Autoignition Temperature Decomposition Temperature Viscosity Molecular Formula Molecular Weight No information available No information available Not applicable C2 H6 Cl2 Sn 219.66

## 10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Moisture sensitive.	
Conditions to Avoid	Incompatible products. Excess heat. Exposure to moist air or water.	
Incompatible Materials	Water, Strong oxidizing agents	
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Metal oxides, Hydrogen chloride gas		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	

11. Toxicological information

Acute Toxicity

# Product Information

STOT - single exposure

Component Informa Componen		LD50 Oral		LD50 Dermal	1 050	Inhalation
Stannane, dichloro	dimetnyi-	LD50 = 73900 µg/kg (Rat) LD50 = 404 mg/kg (Rabbit) LC50 = 125			mg/L (Rat)1	
oxicologically Syn	ergistic	No information avail	able			
Products Delayed and immed	iate effects a	s well as chronic effect	ts from short an	d long-term exposu	<u>ire</u>	
rritation		No information avail	No information available			
Sensitization		No information avail	No information available			
Carcinogenicity		The table below indi	icates whether ea	ach agency has listed	d any ingredient	as a carcinoge
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Stannane, dichlorodimethyl-	753-73-1	Not listed	Not listed	Not listed	Not listed	Not listed
Nutagenic Effects		No information available				
Reproductive Effect	ts	No information available.				
Developmental Effe	cts	No information available.				
<b>Feratogenicity</b>		No information available.				

**STOT - repeated exposure** Central nervous system (CNS) Immune system Liver Kidney Blood

None known

Aspiration hazard No information available

Symptoms / effects,both acute and Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. delayed Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

### **Endocrine Disruptor Information**

No information available

Other Adverse Effects

The toxicological properties have not been fully investigated.

# 12. Ecological information

### Ecotoxicity

Do not empty into drains. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Stannane, dichlorodimethyl-	Not listed	LC50: = 320 mg/L, 96h	Not listed	Not listed
		(Pimephales promelas)		
Persistence and Degrada	bility based on info	ormation available. May pe	rsist	
<b>Bioaccumulation/ Accum</b>	ulation No information	on available.		
Mobility	Will likely be	mobile in the environment	due to its water solubility.	
	Component		log Pow	
Stanna	ne, dichlorodimethyl-		-2.18	
	13. Di	sposal considera	ations	
Waste Disposal Methods			mine whether a discarded overators must also consult l	

nazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information		
DOT		
UN-No	UN2923	
Proper Shipping Name	Corrosive solid, toxic, n.o.s.	
Technical Name	Stannane, dichlorodimethyl-	
Hazard Class	8	
Subsidiary Hazard Class	6.1	
Packing Group	II	
TDG		
UN-No	UN2923	
Proper Shipping Name	Corrosive solid, toxic, n.o.s.	
Hazard Class	8	
Subsidiary Hazard Class	6.1	
Packing Group	II.	
UN-No	UN2923	
Proper Shipping Name	Corrosive solid, toxic, n.o.s.	
Hazard Class	8	
Subsidiary Hazard Class	6.1	
Packing Group	11	
IMDG/IMO		
UN-No	UN2923	
Proper Shipping Name	Corrosive solid, toxic, n.o.s.	
Hazard Class	8	
Subsidiary Hazard Class	6.1	
Packing Group	<u>  </u>	
	15. Regulatory information	

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Stannane, dichlorodimethyl-	753-73-1	Х	ACTIVE	-

### Legend:

**TSCA** US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

# TSCA - Per 40 CFR 751, Regulation of Certain ChemicalNot applicableSubstances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

#### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Stannane, dichlorodimethyl-	753-73-1	Х	-	212-039-2	Х	Х	Х	Х	Х	KE-10117

**KECL** - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

### U.S. Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### California Proposition 65

This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Stannane,	-	-	-	-	Х
dichlorodimethyl-					

#### U.S. Department of Transportation

Ν

Reportable Quantity (RQ):

DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.

### **Other International Regulations**

Mexico - Grade

No information available

### Authorisation/Restrictions according to EU REACH

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization		REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Stannane, dichlorodimethyl-	753-73-1	-	Use restricted. See item 75. (see link for restriction details) Use restricted. See item 20. (see link for restriction details)	-

### **REACH links**

https://echa.europa.eu/substances-restricted-under-reach

### Safety, health and environmental regulations/legislation specific for the substance or mixture

Compo	onent	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Stannane, dich	lorodimethyl-	753-73-1	Listed	Not applicable	Not applicable	Not applicable

# Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

### **Other International Regulations**

	Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Convention (PIC)	Basel Convention (Hazardous Waste)
Stannar	ne, dichlorodimethyl-	753-73-1	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com
Revision Date Print Date Revision Summary	26-Mar-2024 26-Mar-2024 New emergency telephone response service provider.
Disclaimer	

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# **End of SDS**