

Safety Data Sheet per OSHA HazCom 2012



Product name: Dimethyltin dichloride

Identification number(s): EC number: 212-039-2

4 First-aid measures

Description of first aid measures

Description of first and measures General information Immediately remove any clothing soiled by the product. Remove breathing apparatus only after contaminated clothing has been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration. After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.

Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Do not induce vomiting; immediately call for medical help. Information for doctor

Most important symptoms and effects, both acute and delayed Causes severe skin burns.

Causes serious eve damage. Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Extinguishing media Extinguishing media Suitable extinguishing agents CO2, sand, extinguishing powder. Do not use water. Special hazards arising from the substance or mixture Reacts with water forming hydrochloric acid (HCI) If this product is involved in a fire, the following can be released: Hydrogen chloride (HCl) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation **Environmental precautions:** Do not allow material to be released to the environment without proper governmental permits. **Methods and material for containment and cleaning up:** Methods and material for containment and cleaning up: Use neutralizing agent. Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. **Prevention of secondary hazards:** No special measures required. **Reference to other sections** See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information. 7 Handling and storage Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Open and handle container with care. Information about protection against explosions and fires: No information known.

Conditions for safe storage, including any incompatibilities

Conditions for sale storage, including any including any including any storage Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Control parameters Components with limit values that require monitoring at the workplace:

Tin, organic compounds, as Sn
mg/M3ACGIH TLV0.1; 0.2-STEL (skin)
Not classifiable as a human carcinogenAustria MAK0.1 (skin)
Denmark TWADenmark TWA0.1 (skin)
Finland TWAFrance VME0.1
(skin)
HungaryGermany MAK0.1 (skin)
HungaryKorea TLV0.1; 0.2-STEL (skin)
Norway TWANorway TWA0.1
0.1; 0.2-STEL (skin)
Horea TLVSwitzerland MAK-W0.1; 0.2-STEL (skin)
United KingdomUSA PEL0.1 Tin, organic compounds, as Sn

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(Contd. of page 1)

Product name: Dimethyltin dichloride					
			(Contd. of page 2)		
	tethyltin dichloride (100.0 Long-term value: 0.1 mg/r				
REL (USA)	as Śn Long-term value: 0.1 mg/r				
TLV (USA)	as Śn, Skin Short-term value: 0.2 mg/r Long-term value: 0.1 mg/r	m³ n³			
EL (Canada)	Long-term value: 0.1 mg/m ³				
as Sn; Skin EV (Canada) Long-term value: 0.1 mg/m³ as Sn, Skin		n³			
Additional information: No data					
Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all solied and contaminated clothing immediately. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use self-contained respiratory protective device in emergency situations. Protection of hands: Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Penetration time of glove material (in minutes) Not determined Eye protection: Tightly sealed goggles					
Full face prote	a goggies ection tion: Protective work clothi	ng.			
9 Physical and chemical properties					
General Infor Appearance: Form: Color:		Crystalline White			
Odor: Odor thresho	old:	Not determined Not determined.			
pH-value:		Not applicable.			
Boiling poi	ondition int/Melting range: int/Boiling range: n temperature / start:	107-108 °C (225-226 °F) 188-190 °C (370-374 °F) Not determined			
Ignition temp	ion temperature:	Not applicable Not determined Not determined Not determined Not determined			
Danger of ex Explosion lin	plosion:	Product does not present an explosion hazard.			
Lower: Upper:		Not determined Not determined			
Vapor pressu Density:	ure:	Not applicable. Not determined			
Relative dens	sity	Not determined.			
Vapor densit Evaporation	rate	Not applicable. Not applicable.			
Solubility in / Water:	/ Miscibility with	Slightly soluble			
	fficient (n-octanol/water)	Reacts			
Viscosity:					
dynamic: kinematic:		Not applicable. Not applicable.			
Other inform	ation	No further relevant information available.			
10 Stability and reactivity					
Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Reacts with water forming hydrochloric acid (HCI) Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Hydrogen chloride (HCI) Carbon monoxide and carbon dioxide Metal oxide fume					
11 Toxicological information Information on toxicological effects					
Acute toxicit Toxic in conta	ty:		(Contd. on page 4)		
			UŠA -		

Product name: Dimethyltin dichloride

Taxia if inhalad	(Contd. of page 3)				
Toxic if inhaled. Toxic if swallowed.					
Danger through skin absorption. Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.					
Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes severe skin burns.					
Eve irritation or corrosion: Causes serious eve damage.					
Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known.					
Carcinogenicity:	Carcinogenicity:				
ACGIH A4: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans and/or animals. Reproductive toxicity: No effects known.					
Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known.					
Aspiration hazard: No effects known. Subacute to chronic toxicity:					
Organic tin compounds are generally more toxic than inorganic tin. Exposure may result in brain and central nervous system swelling, muscle weakness, paralysis, respiratory failure, neurological disturbances, liver damage, urinary tract injury and blood injury. Excessive exposure may be fatal.					
Subacuté to chronic toxíčity: No effects known.					
Additional toxicological information: To the best of our knowledge the acute	e and chronic toxicity of this substance is not fully known.				
12 Ecological information					
Toxicity Aquatic toxicity: No further relevant information available.					
Persistence and degradability No further relevant information available.					
Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available.					
Additional ecological information: General notes:					
Do not allow material to be released to the environment without proper governmental permits.					
Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment.					
PBT: Not applicable	Results of PBT and vPvB assessment PBT: Not applicable				
vPvB: Not applicable. Other adverse effects No further relevant information available.					
13 Disposal considerations					
Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper	r disposal.				
Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.					
14 Transport information UN-Number					
DOT, IMDG, IATA UN proper shipping name	UN3146				
DOT IMDG, IATA	Organotin compounds, solid, n.o.s. (dimethyltin dichloride) ORGANOTIN COMPOUND, SOLID, N.O.S. (dimethyltin dichloride)				
Transport hazard class(es)	ORGANOTIN CONFOUND, SOLID, N.O.S. (anneurytun alchonae)				
DOT					
*					
Class	6.1 Toxic substances.				
Label Class	6.1 6.1 (T3) Toxic substances				
Label IMDG, IATA	6.1				
$\langle \rangle$					
Class	6.1 Toxic substances.				
Label	6.1				
Packing group DOT, IMDG, IATA	111				
Environmental hazards:	Not applicable.				
Special precautions for user	Warning: Toxic substances				
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.					
Transport/Additional information:					
DOT Marine Pollutant (DOT):	No				
UN "Model Regulation":	UN3146, Organotin compounds, solid, n.o.s. (dimethyltin dichloride), 6.1, III				
15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture					

Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)

(Contd. on page 5) USA

Product name: Dimethyltin dichloride

(Contd. of page 4) Hazard pictograms R GHS05 GHS06 Signal word Danger Hazard statements H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled. H314 Causes severe skin burns and eye damage Precautionary statements Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapours/spray. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/... P303+P361+P353 IF on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P361 Take off immediately all contaminated clothing. P405 Store lower of the store of P405 P501 Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. National regulations All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Domestic Substances List (DSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, compared Substance is not listed. Prop 65 - Developmental toxicity, compared Substance is not listed. Prop 65 - Developmental toxicity, compared Substance is not listed. Prop 65 - Developmental toxicity, compared Substance is not listed. Prop 65 - Developmental toxicity, compared Substance is not listed. Prop 65 - Developmental toxicity, compared Substance is not listed. Prop 65 - Developmental toxicity, compared Substance is not listed. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. National regulations market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out. 16 Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the use Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances EINECS: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent LD50: Lethal dose, 50 percent LD50: Cathal dose, 50 percent CAGEIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) MTP: Marinal Toxicology Program (USA) MAR: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)