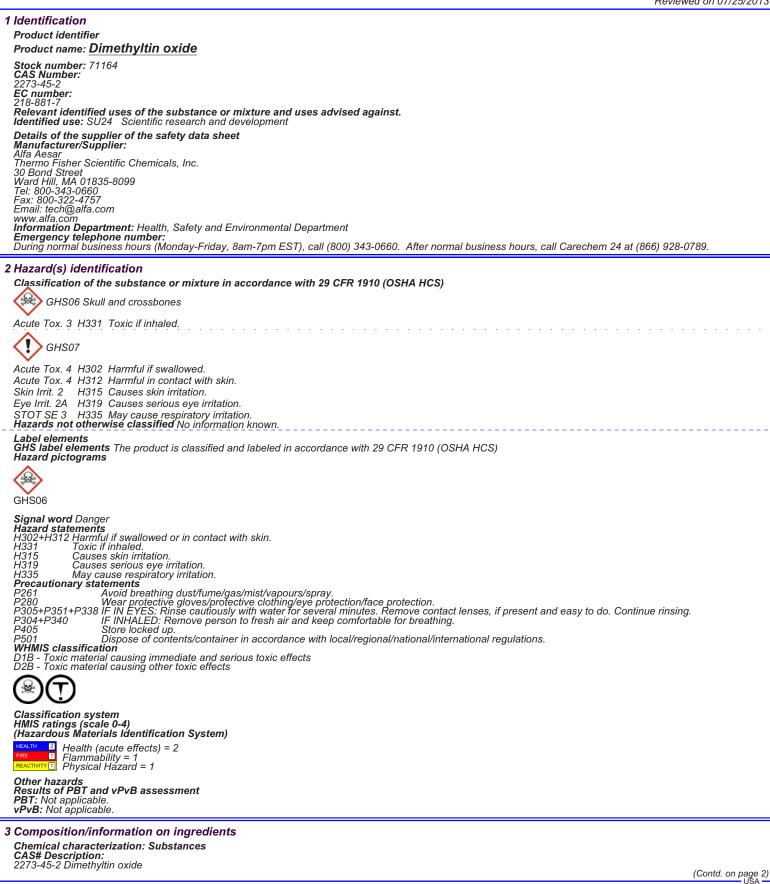


Safety Data Sheet per OSHA HazCom 2012



Product name: Dimethyltin oxide

Identification number(s): EC number: 218-881-7

4 First-aid measures

Description of first aid measures

After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. 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 Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide

Metal oxide fume 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 Ensure adequate ventilation Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: 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. Information about protection against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities 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: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data

Exposure controls

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 soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious gloves

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:** Safety glasses **Body protection:** Protective work clothing.

(Contd. of page 1)

Product name: Dimethyltin oxide

		(Contd. of page 2)
9 Physical and chemical properties	5	
Information on basic physical and ch		
General Information Appearance:		
Form:	Powder	
Color: Odor:	White Not determined	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/Melting range:	Not determined	
Boiling point/Boiling range	Not determined	
Sublimation temperature / start: Flammability (solid, gaseous)	Not determined Not determined.	
lanition temperature:	Not determined	
Decomposition temperature: Auto igniting:	Not determined Not determined.	
Danger of explosion:	Not determined.	
Explosion limits: Lower:	Not determined	
Upper:	Not determined	
Vapor pressure: Density:	Not applicable. Not determined	
Relative density	Not determined.	
Vapor density Evaporation rate	Not applicable. Not applicable.	
Solubility in / Miscibility with Water:	Insoluble	
Partition coefficient (n-octanol/water)		
Viscosity: dynamic:	Not applicable.	
kinematic:	Not applicable.	
Other information	No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known.		
Chemical stability Stable under recom	mended storage conditions. to be avoided: Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions Re	eacts with strong oxidizing agents	
Conditions to avoid No further relevan Incompatible materials: Oxidizing age	it information available.	
Hazardous decomposition products:	113	
Carbon monoxide and carbon dioxide Metal oxide fume		
11 Taxical agiast information		
11 Toxicological information		
Information on toxicological effects Acute toxicity:		
Harmful in contact with skin. Harmful if swallowed.		
Toxic if inhaled.		
Danger through skin absorption. The Registry of Toxic Effects of Chemic	al Substances (RTECS) contains acute toxicity data for this substance.	
LD/LC50 values that are relevant for (classification: No data	
Skin irritation or corrosion: Causes sl Eye irritation or corrosion: Causes se	prious eye irritation.	
Sensitization: No sensitizing effects kn Germ cell mutagenicity: No effects kn	own.	
Carcinogenicity:	UW11.	
ACGIH A4: Not classifiable as a human Reproductive toxicity: No effects know	carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans an wn	id/or animals.
Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation.		
Aspiration hazard: No effects known.		
Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.		
12 Ecological information		
Toxicity Aquatic toxicity: No further relevant in	formation available.	
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 undiluted product or large	quantities to reach ground water, water course or sewage system.	
Avoid transfer into the environment. A second se		
PBT: Not applicable. vPvB: Not applicable.		
Other adverse effects No further releva	ant information available.	
13 Disposal considerations		
Waste treatment methods		
Recommendation Consult state, local	or national regulations to ensure proper disposal.	(Contd. on page 4)
		USA USA

Product name: Dimethyltin oxide

(Contd. of page 3)

Uncleaned packagings:

Uncleaned packagings: Recommendation: Disposal must be made according to a	official regulations.	
4 Transport information		
UN-Number DOT, IMDG, IATA	UN3146	
UN proper shipping name DOT	Organotin compounds, solid, n.o.s. (Dimethyltin oxide) ORGANOTIN COMPOUND, SOLID, N.O.S. (Dimethyltin oxide)	
IMDG, IATA Transport hazard class(es)	ORGANOTIN COMPOUND, SOLID, N.O.S. (Dimethylun oxide)	
DOT		
Class Label	6.1 Toxic substances. 6.1	
Class Label IMDG, IATA	6.1 (T3) Toxic substances 6.1	
Class Label	6.1 Toxic substances. 6.1	
Packing group DOT, IMDG, IATA	<i>III</i>	
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 oxide), 6.1, III	
P304+P340 IF INHALED: Remove person to fresh a P405 Store locked up. P501 Dispose of contents/container in accord National regulations All components of this product are listed in the U.S. Enviro All components of this product are listed on the Canadian SARA Section 313 (specific toxic chemical listings) Su California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance Prop 65 - Developmental toxicity, female Substance is not Prop 65 - Developmental toxicity, male Substance is not Prop 65 - Developmental toxicity and Substance is not listed	dance with local/regional/national/international regulations. onmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. Non-Domestic Substances List (NDSL). Ibstance is not listed. e is not listed. 1. not listed	
Substance is not listed. Annex XIV of the REACH Regulations (requiring Author Chemical safety assessment: A Chemical Safety Assess 6 Other information Employers should use this information only as a supplement information to ensure proper use and protect the health ar conformance with this Material Safety Data Sheet, or in co Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / -	sment has not been carried out. ent to other information gathered by them, and should make independent judgement of suitability of this nd safety of employees. This information is furnished without warranty, and any use of the product not in ombination with any other product or process, is the responsibility of the user.	
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		
IMDG: International Maritime Code for Dangerous Goods	(Contd. on page	

Safety Data Sheet per OSHA HazCom 2012

- DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

(Contd. of page 4)

USA