

Safety Data Sheet per OSHA HazCom 2012

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	Information for doctor	
		(Contd. on page 2) USA

Product name: Tin (IV) phthalocyanine dichloride

Indication of any immediate medical attention and special treatment needed No further relevant information available.	(Contd. of page 1)
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 Nitrogen oxides (NOx) Sulfur oxides (SOx) 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: Dispose of contaminated material as waste according to section 13. Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling See Section 13 for disposal information.	
See Section 1's for disposal minimation. 7 Handling Precautions for safe handling Handle under dry protective gas. 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. Store away from water/moisture. Further information about storage conditions: Store under dry inert gas. This product is moisture sensitive. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and water. Store in cool, dry conditions in well sealed containers. Protect from humidity and water. 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. Components with limit values that require monitoring at the workplace: Tin, organic compounds, as Sn mg/m3 ACGIH TLV 0.1; 0.2-STEL (skin) Not classified as a human carcinogen Austria MAK 0.1 (skin) Belgium TWA 0.1 (skin) Denmark TWA 0.1 (skin) France VME 0.1; 0.2-VLE Germany MAK 0.1 (skin) Noterlands MAC-TGG 0.1; 0.2-MAC-K (skin) Norway TWA 0.1 0.1; 0.2-STEL (skin) United Kingdom 0.1; 0.2-STEL (skin) UNAK PEL 0.1 	
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 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. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. 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. Eye protection: Safety glasses	(Contd. on page 3)

Product name: Tin (IV) phthalocyanine dichloride

Body protection: Protective work clothing.

(Contd. of page 2)

Body protection: Protective work clothi	rng		
9 Physical and chemical properties			
Information on basic physical and che			
General Information			
Appearance: Form:	Powder		
Color:	Dark blue		
Odor: Odor threshold:	Not determined Not determined		
pH-value:	Not determined. Not applicable.		
Change in condition			
Melting point/Melting range:	Not determined		
Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined		
Flash point:	Not applicable		
Flammability (solid, gaseous)	Not determined.		
Ignition temperature:	Not determined Not determined		
Decomposition temperature: Auto igniting:	Not determined Not determined.		
Danger of explosion:	Product does not present an explosion hazard.		
Explosion limits:			
Lower: Upper:	Not determined Not determined		
Vapor pressure:	Not applicable.		
Density: Relative density	Not determined Not determined.		
Vapor density	Not applicable.		
Evaporation rate Solubility in / Miscibility with	Not applicable.		
Water:	Not determined		
Partition coefficient (n-octanol/water):			
Viscosity: dynamic:	Not applicable.		
kinematic:	Not applicable.		
Other information	No further relevant information available.		
10 Stability and reactivity			
<i>Reactivity No information known.</i>			
Chemical stability Stable under recomn	mended storage conditions.		
Thermal decomposition / conditions to	to be avoided: Decomposition will not occur if used and stored according to specifications.		
Possibility of hazardous reactions No Conditions to avoid No further relevant	o dangerous reactions known		
Incompatible materials:			
Oxidizing agents Water/moisture			
Water/moisture Hazardous decomposition products:			
Carbon monoxide and carbon dioxide			
Sulfur oxides (SOx)	Nitrogen oxides Sulfur oxides (SOx)		
Hydrogen chloride (HCI)			
11 Toxicological information			
Information on toxicological effects			
Acute toxicity: Fatal if swallowed.			
LD/LC50 values that are relevant for c Skin irritation or corrosion: Irritant to s			
Eye irritation or corrosion: Irritating eff	fect.		
Sensitization: No sensitizing effects kno	own.		
Germ cell mutagenicity: No effects kno Carcinogenicity:	JW11.		
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 know. Specific target organ system toxicity -	vn. - repeated exposure: No effects known.		
Specific target organ system toxicity -	- single exposure: No effects known.		
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect			
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,			
Additional toxicological information	nces, liver damage, urinary tract injury and blood injury. Excessive exposure may be fatal. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.		
<u>v</u>			
12 Ecological information			
Toxicity Aquatic toxicity: No further relevant info	ormation 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:	he environment without proper gevernmentel permite		
Do not allow undiluted product or large q	the environment without proper governmental permits. quantities to reach ground water, water course or sewage system.		
Avoid transfer into the environment.			
Results of PBT and vPvB assessment PBT: Not applicable.	ι (
vPvB: Not applicable.			
	(Contd. on page 4) USA		

Product name: Tin (IV) phthalocyanine dichloride			
Other adverse effects No further relevant information available.	(Contd. of page 3)		
13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.			
14 Transport information			
UN-Number DOT, IMDG, IATA	UN3146		
UN proper shipping name DOT IMDG, IATA	Organotin compounds, solid, n.o.s. (Tin (IV) phthalocyanine dichloride) ORGANOTIN COMPOUND, SOLID, N.O.S. (Tin (IV) phthalocyanine dichloride)		
Transport hazard class(es) DOT			
Class Label Class Label IMDG, IATA	6.1 Toxic substances. 6.1 6.1 (T3) Toxic substances 6.1		
Class Label	6.1 Toxic substances. 6.1		
Packing group DOT, IMDG, IATA	III		
Environmental hazards:	Not applicable.		
Special precautions for user Transport in bulk according to Annex II of MARPOL73/78 and the IBC Cod	Warning: Toxic substances		
Transport/Additional information:			
DOT Marine Pollutant (DOT):	Νο		
UN "Model Regulation":	UN3146, Organotin compounds, solid, n.o.s. (Tin (IV) phthalocyanine dichloride), 6.1, III		
15 Regulatory information			
Safety, health and environmental regulations/legislation specific for the su GHS label elements The product is classified and labeled in accordance with 2 Hazard pictograms	ubstance or mixture 29 CFR 1910 (OSHA HCS)		
GHS06			
Signal word Danger Hazard statements H301 Toxic if swallowed. Precautionary statements P264 Wash thoroughly after handling. P275 Do not eat, drink or smoke when using this product. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/ P321 Specific treatment (see on this label). P405 Store locked up. P501 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. SARA Section 313 (specific toxic chemical listings) Substance is not listed. Prop 65 - Chewicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, 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, female Substance is not listed. Information about 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			
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. Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / -			
Date of preparation / last revision 11/24/2015 / -	(Contd. on page 5)		

Product name: Tin (IV) phthalocyanine dichloride

(Contd. of page 4)

USA

- 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 IATA: International Air Transport Association 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 concentration, 50 percent LD50: Lethal concentration and yry Bioaccumulative VPVB: very Persistent and very Bioaccumulative ACGIH: American Cocupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) MAC: International Toxicology Program (USA) EARC: International Toxicology Program (USA)