

Revision: 12/12/2018 Supersedes Revision: 11/12/2014

	CHEMICAL		Supersedes Revision: 11/12/2014					
		o Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/83						
	Section 1. Ide	entification of the Substance/Mixture and of the	he Company/Undertaking					
1.1	Product Code: Product Name: Synonyms:	16375 Tin Protoporphyrin IX (chloride) (OC-6-13)-dichloro[7,12-diethenyl-3,8,13,17-tetramethyl-21H,23H-porphine-2,18-dipropanoato(4 -)kappa.N21,.kappa.N22,.kappa.N23,.kappa.N24]-stannate(2-), dihydrogen; NSC 267099; SnPPIX;						
.2	Relevant identified uses of the substance or mixture and uses advised against:							
	Relevant identified uses:	For research use only, not for human or vetering	nary use.					
.3	Details of the Supplier of the Company Name:	Safety Data Sheet: Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108						
	Web site address:	www.caymanchem.com						
	Information:	Cayman Chemical Company	+1 (734)971-3335					
1.4	Emergency telephone numb	er:						
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887					
		Section 2. Hazards Identific	ation					
	GHS Signal Word:	Warning						
	GHS Hazard Phrases:							
	H315: Causes skin irritation.							
	H319: Causes serious eye irritation.							
	H335: May cause respiratory irritation.							
	GHS Precaution Phrases:							
	P261: Avoid breathing {dust/fume/gas/mist/vapours/spray}.							
	P264: Wash {hands} thoroughly after handling.							
	P280: Wear {protective gloves/protective clothing/eye protection/face protection}.							
	GHS Response Phrases: P302+352: IF ON SKIN: Wash with plenty of soap and water.							
	P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.							
	P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy							
	to do. Continue rinsing.							
	P312: Call a POISON CENTER or doctor/physician if you feel unwell.							
	P332+313: If skin irritation occurs, get medical advice/attention.							
	P337+313: If eye irritation persists, get medical advice/attention. P362+364: Take off contaminated clothing and wash it before reuse.							
	GHS Storage and Disposal Phrases:							
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	Pleas	e refer to Section 7	for Storage and Section 13 fc	or Disposal informa	ation.				
2.3	Advers	e Human Health	Causes serious eye irritation	า.					
	Effects	and Symptoms:	Causes skin irritation.						
			Material may be irritating to			spiratory tract.			
			May be harmful by inhalatio	-	in absorption.				
			May cause respiratory irritat						
			To the best of our knowledg	e, the toxicologica	Il properties have no	t been thoroughly investigated.			
		Sec	tion 3. Composition	n/Informatio	n on Ingredie	ents			
CAS	#/	Hazardous Com	ponents (Chemical Name)/	Concentration	EC No./	GHS Classification			
RTE	CS #	REACH Registra	tion No.		EC Index No.				
1432	25-05-4	Tin Protoporphyrin I	X (chloride)	100.0 %	NA	Skin Corr. 2: H315			
WH89	903000				NA	Eye Damage 2: H319			
						STOT (SE) 3: H335 H336			
			Section 4. F	irst Aid Mea	isures				
4.1	Descri	ption of First Aid							
	Measu	res:							
	In Case	e of Inhalation:	Remove to fresh air. If not b	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel.					
			Get immediate medical atter	ntion.					
	In Case	e of Skin Contact:	Immediately wash skin with	soap and plenty of	f water for at least 1	5 minutes. Remove contaminated			
			clothing. Get medical attenti	on if symptoms oc	cur. Wash clothing t	pefore reuse.			
	In Case	e of Eye Contact:	Hold eyelids apart and flush	eyes with plenty of	of water for at least 1	5 minutes. Have eyes examined			
			and tested by medical perso	nnel.					
	In Case of Ingestion: Wash out mouth with water			provided person is	conscious. Never g	ive anything by mouth to an			
		-			dical attention. Do NOT induce vomiting unless directed to do so by				
			medical personnel.						
			Section 5. Fire	e Fighting M	leasures				
5.1	Suitabl	e Extinguishing	Use alcohol-resistant foam,	carbon dioxide, w	ater, or dry chemica	l spray.			
	Media:		Use water spray to cool fire	ay to cool fire-exposed containers.					
	Unsuit	uitable Extinguishing A solid water stream may be inefficient.							
	Media:								
5.2	Flammable Properties and No data available.								
	Hazard	s:							
			No data available.						
	Flash F	D 1 -	No data.						
		ive Limits:	LEL: No data.	UEL: No	, data				
	-		No data.	OLL. NO	Juala.				
	-	nition Pt:							
5.3	Fire Fig	Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.							
			equivalent), and full protectl	ve gear to prevent	contact with skin ar	id eyes.			



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	Se	ction 6. Accidental Release Measures
6.1	Protective Precautions, Av	pid raising and breathing dust, and provide adequate ventilation.
	Protective Equipment and As	conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,
	Emergency Procedures: and	appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
6.2	Environmental Ta	ke steps to avoid release into the environment, if safe to do so.
	Precautions:	
6.3	Methods and Material For Co	ntain spill and collect, as appropriate.
	Containment and Cleaning Tra	insfer to a chemical waste container for disposal in accordance with local regulations.
	Up:	
		Section 7. Handling and Storage
7.1	Precautions To Be Taken Avo	id breathing dust/fume/gas/mist/vapours/spray.
	in Handling: Avo	id prolonged or repeated exposure.
7.2	Precautions To Be Taken Kee	ep container tightly closed.
	in Storing: Sto	re in accordance with information listed on the product insert.
	Section	8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	
8.2	Exposure Controls:	
8.2.1	Engineering Controls Use	process enclosures, local exhaust ventilation, or other engineering controls to control airborne
	(Ventilation etc.): leve	els below recommended exposure limits.
8.2.2	Personal protection equipment	nt:
	Eye Protection: Saf	ety glasses
	Protective Gloves: Cor	npatible chemical-resistant gloves
	Other Protective Clothing:Lab	coat
	Respiratory Equipment NIC	SH approved respirator, as conditions warrant.
	(Specify Type):	
	Work/Hygienic/Maintenan Do	not take internally.
	ce Practices: Fac	ilities storing or utilizing this material should be equipped with an eyewash and a safety showe
	Wa	sh thoroughly after handling.
	No	data available.
	Sect	ion 9. Physical and Chemical Properties
9.1	Information on Basic Physical	and Chemical Properties
	Physical States:	[]Gas []Liquid [X]Solid
	Appearance and Odor:	A crystalline solid
	pH:	No data.
	Melting Point:	No data.
	Boiling Point:	No data.
	Flash Pt:	No data.
	Evaporation Rate:	No data.
	Flammability (solid, gas):	No data available.
	Explosive Limits:	LEL: No data. UEL: No data.
	Vapor Pressure (vs. Air or mn	n No data.
	Hg):	
	Vapor Density (vs. Air = 1):	No data.

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	Specific Gravity (Water =	1): No data	l.					
	Solubility in Water:		No data.					
	Solubility Notes:	~0.5 mg	g/ml in a 1:1 solution of	of DMF:PBS (pF	l 7.2); ~0.5 mg	/ml in DMSO; ~	-1 mg/ml in	
		DMF;						
	Octanol/Water Partition	No data	ι.					
	Coefficient:							
	Autoignition Pt:	No data	۱.					
	Decomposition Temperat	ure: No data	l.					
	Viscosity:	No data	۱.					
9.2	-							
	Percent Volatile:	No data	l.					
	Molecular Formula & Weig	ght: C34H30)Cl2N4O4Sn • 2H	750.3				
		Sectior	n 10. Stability	and Reacti	vity			
10.1	Reactivity:	No data availat	ole.					
10.2	Stability:	Unstable []	Stable [X]					
10.3	Stability Note(s):	Stable if stored	in accordance with in	formation listed	on the product	insert.		
	Polymerization:	Will occur []	Will not occur [X]				
10.4	Conditions To Avoid:	No data availat	ble.					
10.5	Incompatibility - Materials	strong oxidizing	gagents					
	To Avoid:	-						
10.6	Hazardous	carbon dioxide						
	Decomposition or	carbon monoxi	de					
	Byproducts:	phosgene						
		nitrogen oxides						
		Section	11. Toxicolog	ical Informa	ation			
11.1	Information on	The toxicologic	al effects of this produ	uct have not bee	n thoroughly st	tudied.		
	Toxicological Effects:	Ŭ	·		0,			
CAS	# Hazardous Com	nonents (Chem	ical Name)	NTP	IARC	ACGIH	OSHA	
	25-05-4 Tin Protoporphyri	•		n.a.	n.a.	n.a.	n.a.	
1432		. ,				11.a.	11.a.	
		Sectior	n 12. Ecologic	al Informat	ion			
12.1	Toxicity:		nto the environment.					
		Runoff from fire	e control or dilution wa	ater may cause p	ollution.			
12.2	Persistence and	No data availat	ble.					
	Degradability:							
12.3	2.3 Bioaccumulative No da		ole.					
	Potential:							
12.4	4 Mobility in Soil: No da		lata available.					
12.5	Results of PBT and vPvB	No data availat	ole.					
	assessment:							
12.6	Other adverse effects:	No data availat	ole.					



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		Section 13. Dispos	al Considerat	ions			
13.1 Waste D	isposal Method:	Dispose in accordance with loca	I, state, and federal r	egulations.			
		Section 14. Trans	sport Informat	ion			
14.1 LAND T	RANSPORT (US	DOT):					
DOT Prope	r Shipping Name	Not dangerous goods.					
DOT Hazar	d Class:						
UN/NA Nur							
	-	opean ADR/RID):					
UN Numbe	hipping Name: r·	Not dangerous goods.					
Hazard Cla							
14.3 AIR TR/	ANSPORT (ICAO/	/IATA):					
ICAO/IATA	Shipping Name:	Not dangerous goods.					
Additional Trai	nsport	Transport in accordance with lo	cal, state, and federa	l regulations.			
Information:							
		Section 15. Regul	atory Information	tion			
EPA SARA (Su	perfund Amendn	nents and Reauthorization Act of	of 1986) Lists				
CAS #	Hazardous Com	nponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
14325-05-4	Tin Protoporphyr	rin IX (chloride)	No	No	No		
CAS #		nponents (Chemical Name) Other US EPA or State Lists					
14325-05-4	Tin Protoporphyr	rin IX (chloride)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulatory Info	ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)					
Statement:		No.1272/2008.					
		Section 16. Oth	er Information	า			
Revision Date:		12/12/2018					
Additional Information About		No data available.					
This Product:	_						
Company Polic	y or Disclaimer:	DISCLAIMER: This information currently available to us. Howev		•			
		express or implied, with respect to such information, and we assume no liability resulting from its					
		use. Users should make their o	wn investigations to c	letermine the suitabil	ity of the information fo		
		their particular purposes.					