

Revision: 01/21/2017

Multi-region format

		EC) No. 1272/2008				
Section 1.	Identification of the Substance/Mixture and of th	e Company/Undertaking				
Product Code:	20962					
Product Name:	1-Palmitoyl-2-linoleoyl-sn-glycero-3-PC					
Synonyms:						
	•					
-		-				
-						
Details of the Supplier of t	the Safety Data Sheet:					
Company Name:	Cayman Chemical Company 1180 E. Ellsworth Rd.					
Wab site address						
	-	+1 (734)971-3335				
		+1 (10+)311-3333				
		+1 (800)424-9300				
Emergency Contact.	CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
	Section 2. Hazards Identifica					
Skin Corrosion/Irritation Serious Eye Damage/Eye Carcinogenicity, Catego Toxic To Reproduction, Specific Target Organ Te Label Elements:	a, Category 2 e Irritation, Category 2A ory 2 Category 2 oxicity (repeated exposure), Category 2 Category 2 oxicity (repeated exposure), Category 2 Danger Danger					
	Product Name: Synonyms: Relevant identified uses of Relevant identified uses Details of the Supplier of the Company Name: Web site address: Information: Emergency telephone nur Emergency Contact: Classification of the Subs Acute Toxicity: Inhalation Acute Toxicity: Oral, Cat Skin Corrosion/Irritation Serious Eye Damage/Eye Carcinogenicity, Catego Toxic To Reproduction, Specific Target Organ T Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowe H315: Causes skin irritation H319: Causes serious eye H331: Toxic if inhaled. H351: Suspected of causi H361: Suspected of causi	Product Name: 1-Palmitoyl-2-linoleoyl-sn-glycero-3-PC Synonyms: (7R,17Z,20Z)-4-hydroxy-N,N,N-trimethyl-9-oxo hosphahexacosa-17,20-dien-1-aminium-4-oxid 1-Palmitoyl-2-linoleoyl-sn-glycero-3-Phosphatic Relevant identified uses of the substance or mixture and uses advised aga Relevant identified uses: For research use only, not for human or veterin Details of the Supplier of the Safety Data Sheet: Company Name: Cayman Chemical Company 1180 E. Elisworth Rd. Ann Arbor, MI 48108 Web site address: www.caymanchem.com Information: Cayman Chemical Company Information: Cayman Chemical Company Cayman Chemical Company Information: Cayman Chemical Company Emergency telephone number: Emergency Contact: CHEMTREC Within USA and Canada: Classification of the Substance or Mixture: Acute Toxicity: Inhalation, Category 3 Acute Toxicity: Cral, Category 4 Skin Corrosion/Irritation, Category 2 Serious Eye Damage/Eye Irritation, Category 2A Carcinogenicity, Category 2 Specific Target Organ Toxicity (repeated exposure), Category 2 Label Elements: Danger GHS Signal Word: Danger Banger H302: Harmful if swallowed. H315: Causes skin irritation. H319: Causes serious eye irritation.				



SAFETY DATA SHEET 1-Palmitoyl-2-linoleoyl-sn-glycero-3-PC

	GHS	Precaution Phrase	s:					
	P201: Obtain special instructions before use.							
			all safety precautions have be	en read and unde	rstood.			
			st/fume/gas/mist/vapors/spray					
		-	oughly after handling.	,				
			loves/protective clothing/eye p	rotection/face prote	ection}.			
		Response Phrases		·	,			
P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel ur								
			Wash with plenty of soap and v					
				nove victim to fresh air and keep at rest in a position comfortable for breathing.				
				er for several minutes. Remove contact lenses, if present and easy				
to do. Continue rinsing.						, , , , , , , , , , , , , , , , , , ,		
		U U	concerned: Get medical atten	tion/advice.				
	P311:	Call a POISON CE	NTER or doctor/physician.					
	P314:	Get medical attent	on/advice if you feel unwell.					
	P330:	Rinse mouth.						
	P332+	-313: If skin irritatio	n occurs, get medical advice/a	ttention.				
	P337+	-313: If eye irritatior	n persists, get medical advice/a	attention.				
	P362+	-364: Take off conta	aminated clothing and wash it l	pefore reuse.				
	GHS S	Storage and Dispo	sal Phrases:					
Please refer to Section 7 for Storage and Section 13 for Disposal information.								
2.3 A	Advers	e Human Health	-					
E	Effects and Symptoms:		Causes serious eye irritation.					
			Harmful if swallowed.					
			Material may be irritating to the mucous membranes and upper respiratory tract.					
			May be harmful by skin absorption.					
			May cause damage to organ	ans through prolonged or repeated exposure.				
			May cause respiratory syster	n irritation.				
			Suspected of causing cancer					
			Suspected of damaging fertil	ity or the unborn cl	hild.			
			Toxic if inhaled.					
			To the best of our knowledge	, the toxicological	properties have not	t been thoroughly investigated.		
		Sect	tion 3. Composition	/Information	on Ingredie	nts		
CAS#/	,	Hazardous Com	oonents (Chemical Name)/	Concentration	EC No./	GHS Classification		
RTECS	#	REACH Registra	tion No.		EC Index No.			
17708-9	90-6		cis-9,12-octadecadienoyl)-sn-gly	1.0 %	NA	No data available.		
NA		cero-3-phosphochol	ine		NA			
67-66		Chloroform		99.0 %	200-663-8	Acute Tox.(O) 4: H302		
FS9100000				602-006-00-4	Acute Tox.(I) 3: H331			

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Eye Damage 2: H319 Skin Corr. 2: H315 Carcinogen 2: H351 Toxic Repro. 2: H361d STOT (RE) 1: H372



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4.1	Description of First Aid	
	Measures:	
	In Case of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel Get immediate medical attention.
	In Case of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminate clothing. Get medical attention if symptoms occur. Wash clothing before reuse.
	In Case of Eye Contact:	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examiner and tested by medical personnel.
	In Case of Ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.
4.2	Important Symptoms and Effects, Both Acute and Delayed:	Exposure may cause: dizziness, drowsiness, gastrointestinal disturbances, headache, lassitude, nausea, and vomiting.
		Section 5. Fire Fighting Measures
ـــــــ 5.1	Suitable Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
	Media:	Use water spray to cool fire-exposed containers.
	Unsuitable Extinguishing Media:	A solid water stream may be inefficient.
5.2	Flammable Properties and	dNo data available.
	Hazards:	
		No data available.
	Flash Pt:	No data.
	Explosive Limits:	LEL: No data. UEL: No data.
	Autoignition Pt:	No data.
5.3	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.
		Section 6. Accidental Release Measures
6.1	Protective Precautions,	Avoid breathing vapors and provide adequate ventilation.
	Protective Equipment and	d 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 Precautions:	Take steps to avoid release into the environment, if safe to do so.
6.3	Containment and Cleanin	r Contain spill and collect, as appropriate. IgTransfer to a chemical waste container for disposal in accordance with local regulations.
	Up:	
		Section 7. Handling and Storage
7.1		Avoid breathing dust/fume/gas/mist/vapours/spray.
	in Handling:	Avoid prolonged or repeated exposure.
7.2	Precautions To Be Taken in Storing:	Keep container tightly closed. Store in accordance with information listed on the product insert.



3.1	Exposure Parameters:						
CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations			
67-66	-3 Chloroform	ACGIH TLV	TLV: 10 ppm				
		Europe	TWA: 10 mg/m3 (2 ppm)	Skin Absorpti			
		France VL	TWA: 10 mg/m3 (2 ppm)				
			STEL: 250 mg/m3 (50 ppm)				
		OSHA PELs	CEIL: 50 ppm				
		Britain EH40	TWA: 9.9 mg/m3 (2 ppm) STEL: ()	Skin Absorpti			
3.2	Exposure Controls:						
3.2.1							
	(Ventilation etc.): levels below recommended exposure limits.						
3.2.2	Personal protection equip	ment:					
	Eye Protection:	Safety glasses					
	Protective Gloves:	Compatible chemical-resist	ant gloves				
	Other Protective Clothing:	:Lab coat					
	Respiratory Equipment	NIOSH approved respirator	H approved respirator, as conditions warrant.				
	(Specify Type):						
	Work/Hygienic/Maintenan	Do not take internally.					
	ce Practices:	Facilities storing or utilizing	this material should be equipped with an eyewa	sh and a safety show			
		Wash thoroughly after hand	sh thoroughly after handling.				
		No data available.					
	Se	ection 9. Physical	and Chemical Properties				
).1	Se Information on Basic Phys		and Chemical Properties				
9.1			ties				
).1	Information on Basic Phys	ical and Chemical Propert	t ies quid [] Solid				
9.1	Information on Basic Phys Physical States:	ical and Chemical Propert	t ies quid [] Solid				
0.1	Information on Basic Phys Physical States: Appearance and Odor:	ical and Chemical Propert []Gas [X]Lic A solution in chlorof	t ies quid [] Solid				
9.1	Information on Basic Phys Physical States: Appearance and Odor: pH:	ical and Chemical Propert [] Gas [X] Lic A solution in chlorof No data.	t ies quid [] Solid				
9.1	Information on Basic Phys Physical States: Appearance and Odor: pH: Melting Point:	ical and Chemical Propert [] Gas [X] Lic A solution in chlorof No data. No data.	t ies quid [] Solid				
.1	Information on Basic Phys Physical States: Appearance and Odor: pH: Melting Point: Boiling Point:	ical and Chemical Propert [] Gas [X] Lic A solution in chlorof No data. No data. No data.	t ies quid [] Solid				
0.1	Information on Basic Phys Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt:	ical and Chemical Propert [] Gas [X] Lic A solution in chlorof No data. No data. No data. No data.	t ies quid [] Solid				
0.1	Information on Basic Phys Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate:	ical and Chemical Propert [] Gas [X] Lic A solution in chlorof No data. No data. No data. No data. No data. No data.	t ies quid [] Solid				
0.1	Information on Basic Phys Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas):	ical and Chemical Propert []Gas [X]Lic A solution in chlorof No data. No data. No data. No data. No data. No data. No data. LEL: No data.	ties quid []Solid form UEL: No data.				
0.1	Information on Basic Phys Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits:	ical and Chemical Propert []Gas [X]Lic A solution in chlorof No data. No data. No data. No data. No data. No data. No data. LEL: No data.	ties quid []Solid form UEL: No data.				
9.1	Information on Basic Phys Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or	ical and Chemical Propert []Gas [X]Lic A solution in chlorof No data. No data. No data. No data. No data. No data. No data. No data available. LEL: No data.	ties quid []Solid form UEL: No data.				
0.1	Information on Basic Phys Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or Hg):	ical and Chemical Propert []Gas [X]Lic A solution in chlorof No data. No data. No data. No data. No data. No data available. LEL: No data. mm 160 MM_HG at No data.	ties quid []Solid form UEL: No data.				
0.1	Information on Basic Phys Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or Hg): Vapor Density (vs. Air = 1)	ical and Chemical Propert []Gas [X]Lic A solution in chlorof No data. No data. No data. No data. No data. No data available. LEL: No data. mm 160 MM_HG at No data.	ties quid []Solid form UEL: No data.				
9.1	Information on Basic Phys Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or Hg): Vapor Density (vs. Air = 1) Specific Gravity (Water = 7)	ical and Chemical Propert []Gas [X]Lic A solution in chlorof No data. No data. No data. No data. No data. No data. No data. No data available. LEL: No data. * mm 160 MM_HG at * No data. No data.	ties quid []Solid form UEL: No data.				

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SAFETY DATA SHEET 2 DC .1 :4

Cay	man		1-Paimitoyi-2-linoleoyi-sn-giycero-3-PC	Revisi	on: 01/21/2017				
	Autoign	ition Pt:	No data.						
	Decomp	osition Tempera	ture: No data.						
	Viscosit	y:	No data.						
9.2	Other Inf	formation							
	Percent	Volatile:	No data.						
	Molecul	ar Formula & We	ight: C42H80NO8P 758.1						
			Section 10. Stability and Reactivity						
10.1	Reactivi	ity:	No data available.						
10.2	Stability	:	Unstable [] Stable [X]						
10.3	Stability	Note(s):	Stable if stored in accordance with information listed on the product	insert.					
	Polyme	rization:	Will occur [] Will not occur [X]						
10.4	Conditio	ons To Avoid:	protect from air, light, and heat						
10.5	Incompa	atibility - Materia	s aluminum						
	To Avoi	d:	lithium						
			magnesium						
			potassium						
			sodium/sodium oxides						
			strong bases						
10.6	Hazardo		strong oxidizing agents carbon dioxide						
10.6		ous position or	carbon dioxide						
	Byprodu		chlorine						
	Бургоц	ucts.	hydrogen chloride gas						
			nitrogen oxides						
			phosgene gas						
			Section 11. Toxicological Information						
11.1	Informa	tion on	The toxicological effects of this product have not been thoroughly st	udied.					
	Toxicol	ogical Effects:	Chloroform - Toxicity Data: Oral LD50 (rat): 300 mg/kg; Oral LD50 (mouse): 36 mg/kg; Skin LD50						
			(rabbit): > 20 gm/kg; Inhalation TCLO (human): 5,000 mg/m3 (7m); Inhalation LC50 (rat): 47,702						
			mg/m3 (4h);						
	Chronic Toxicological		Chloroform - Irritation Data: Skin (rabbit):10 mg (24h) mild; Eye (rabbit): 20 mg (24h) moderate;						
			Chloroform - Investigated as a carcinogen, mutagen, reproductive effector and tumorigen; May						
	Effects:		cause damage to organs through prolonged or repeated exposure.						
			Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.						
			See actual entry in RTECS for complete information. Chloroform RTECS Number: FS9100000.						
Carcinogenicity/Other Information:		genicity/Other	Chloroform - California Prop. 65 carcinogen.						
			Chloroform - California Prop. 65 carcinogen. Chloroform - IARC category 2B; NTP Carcinogen - reasonably anticipated;						
Carci	nogenicit		NTP? No IARC Monographs? Yes OSHA Regulated? No	ipatoa,					
CAS		-	nponents (Chemical Name) NTP IARC	ACGIH	OSHA				
177	08-90-6	1-Hexadecanoyl phosphocholine	-2-(cis-9,12-octadecadienoyl)-sn-glycero-3- n.a. n.a.	n.a.	n.a.				
67	'-66-3	Chloroform	Possible 2B	A3	n.a.				
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		Section 12. Ecolo	gical Informat	ion		
12.1 Toxic	1 Toxicity: Avoid release into the environment.					
		Runoff from fire control or dilution	n water may cause p	ollution.		
	stence and adability:	No data available.				
	cumulative	No data available.				
Poten	itial:					
12.4 Mobil	ity in Soil:	No data available.				
12.5 Resul	ts of PBT and vPvB	B No data available.				
asses	sment:					
12.6 Other	adverse effects:	verse effects: No data available.				
	Section 13. Disposal Considerations					
13.1 Waste	e Disposal Method:	Dispose in accordance with loca	l, state, and federal r	egulations.		
		Section 14. Trans	sport Informat	ion		
14.1 LAND	D TRANSPORT (US I	DOT):				
DOT Pro	per Shipping Name:	Chloroform Solution				
DOT Haz	ard Class:	6.1 POISON				
UN/NA N	lumber:	1888	Packing Grou	ıp:	III	
		POISON 6				
14.1 LANE	O TRANSPORT (Euro	opean ADR/RID):				
ADR/RID	Shipping Name:	Chloroform Solution				
UN Num	ber:	1888	Packing Grou	ıp:	III	
Hazard C		6.1 - POISON				
	RANSPORT (ICAO/I	-				
	TA Shipping Name:	Chloroform Solution				
UN Num		1888 6.4. DOISON	Packing Group: III IATA Classification: 6.1			
Hazard C		6.1 - POISON			6.1	
	Additional TransportTransport in accordance with local, state, and federal regulations.Information:When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.					
		Section 15. Regula	atory Informat	tion		
EPA SARA (Superfund Amendm	ents and Reauthorization Act o	of 1986) Lists			
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
17708-90-6	1-Hexadecanoyl- glycero-3-phosph	2-(cis-9,12-octadecadienoyl)-sn- ocholine	No	No	No	
67-66-3	Chloroform		Yes 10000 LB	Yes 10 LB	Yes	
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or S	State Lists		
17708-90-6	17708-90-6 1-Hexadecanoyl-2-(cis-9,12-octadecadienoyl)-sn- glycero-3-phosphocholine		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
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67-66-3	Chloroform		CAA HAP,ODC: HAP; CWA NPDES: Yes; TSCA: Yes - Inventory, 8A CAIR; CA PROP.65: Yes
Regulatory Information Statement:		This SDS was prepared in accord No.1272/2008.	dance with 29 CFR 1910.1200 and Regulation (EC)
		Section 16. Oth	er Information
Revision Date:		01/21/2017	
Additional Information About		No data available.	
This Product:			
Company Polic	y or Disclaimer:	currently available to us. Howeve express or implied, with respect t	s believed to be accurate and represents the best information er, we make no warranty of merchantability or any other warranty, to such information, and we assume no liability resulting from its on investigations to determine the suitability of the information for