

Revision: 01/15/2018

Page: 1 of 7

.aj	man	salt)						
	accord	ing to Regulation (EC) No. 1907/2006 as amended by	(EC) No. 1272/2008					
	Section 1. Ide	entification of the Substance/Mixture and of th	ne Company/Undertaking					
1.1	Product Code: Product Name: Synonyms:	20956 1,2-Dioleoyl-sn-glycero-3-phosphate (ammoni (R)-2,3-bis(oleoyloxy)propyl hydrogen phospha 1,2-Dioleoyl-sn-glycero-3-phosphatidic Acid;	-					
1.2	Relevant identified uses of the substance or mixture and uses advised against:							
	Relevant identified uses:	For research use only, not for human or veteri	nary use.					
1.3	Details of the Supplier of the	Safety Data Sheet:						
	Company Name:	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					
2.2	Toxic To Reproduction, Ca Specific Target Organ Tox Label Elements:	icity (repeated exposure), Category 2						
	GHS Signal Word:	Danger						
	GHS Hazard Phrases:	2						
	H302: Harmful if swallowed.							
	H315: Causes skin irritation.							
	H319: Causes serious eye irritation.							
	H331: Toxic if inhaled. H351: Suspected of causing cancer.							
	H361: Suspected of causing cancer. H361: Suspected of damaging fertility or the unborn child.							
	H373: May cause damage to organs through prolonged or repeated exposure.							

Page: 2 of 7



1,2-Dioleoyl-sn-glycero-3-phosphate (ammonium salt)

Revision: 01/15/2018

	EMICAL	Salt)					
	GHS Precaution Phrase	èS:					
	P201: Obtain special inst	ructions before use.					
	P202: Do not handle unti	il all safety precautions have been read and understood.					
	P260: Do not breathe {du	ust/fume/gas/mist/vapors/spray}.					
	P264: Wash {hands} thor	oughly after handling.					
	P280: Wear {protective gloves/protective clothing/eye protection/face protection}.						
	GHS Response Phrases:						
	P301+312: IF SWALLOW	VED: Call a POISON CENTER or doctor/physician if you feel unwell.					
	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 EY	ES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy					
	to do. Continue rinsing.						
	P308+313: IF exposed or	r concerned: Get medical attention/advice.					
	P311: Call a POISON CE	ENTER or doctor/physician.					
	P314: Get medical attent	ion/advice if you feel unwell.					
	P330: Rinse mouth.						
	P332+313: If skin irritatio	n occurs, get medical advice/attention.					
	P337+313: If eye irritation	n persists, get medical advice/attention.					
	P362+364: Take off conta	aminated clothing and wash it before reuse.					
	GHS Storage and Dispo	osal Phrases:					
	Please refer to Section 7	for Storage and Section 13 for Disposal information.					
2.3	Adverse Human Health	Causes skin irritation.					
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 organs through prolonged or repeated exposure.					
		May cause respiratory system irritation.					
		Suspected of causing cancer.					
		Suspected of damaging fertility or the unborn child.					
		Toxic if inhaled.					
		To the best of our knowledge, the toxicological properties have not been thoroughly investigated.					
	Sec	tion 3. Composition/Information on Ingredients					
CAS #	/ Hazardous Com	nononts (Chomical Namo)/ Concontration EC No / GHS Classification					

CAS # / RTECS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification	
NA NA	1,2-Dioleoyl-sn-glycero-3-phosphate (ammonium salt)	2.0 %	NA NA	No data available.	
67-66-3 FS9100000	Chloroform	98.0 %	200-663-8 602-006-00-4	Acute Tox.(O) 4: H302 Acute Tox.(I) 3: H331 Eye Damage 2: H319 Skin Corr. 2: H315 Carcinogen 2: H351 Toxic Repro. 2: H361D STOT (RE) 1: H372	



1,2-Dioleoyl-sn-glycero-3-phosphate (ammonium

salt)

Revision: 01/15/2018

		Section 4. First Aid Measures
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 contaminated 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 examined 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	d Exposure may cause: dizziness, drowsiness, gastrointestinal disturbances, headache, lassitude,
	Effects, Both Acute and Delayed:	nausea, and vomiting.
		Section 5. Fire Fighting Measures
5.1	Suitable Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
	Media:	Use water spray to cool fire-exposed containers.
		g A solid water stream may be inefficient.
	Media:	
5.2	Flammable Properties an	IdNo 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	s: 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, Protective Equipment an Emergency Procedures:	Avoid breathing vapors and provide adequate ventilation.d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, 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		r Contain spill and collect, as appropriate. ngTransfer to a chemical waste container for disposal in accordance with local regulations.
		Section 7. Handling and Storage
7.1	Precautions To Be Taker	Avoid breathing dust/fume/gas/mist/vapours/spray.
	in Handling:	Avoid prolonged or repeated exposure.
7.2	Precautions To Be Taker	Neep container tightly closed.
	in Storing:	Store in accordance with information listed on the product insert.



SAFETY DATA SHEET 1,2-Dioleoyl-sn-glycero-3-phosphate (ammonium

salt)

Revision: 01/15/2018

	1	
5 I	f \	
u	ιJ	

8.1	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 Absorptio			
		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 Absorptio			
3.2	Exposure Controls:						
3.2.1	Engineering Controls	Use process enclosures, lo	ocal exhaust ventilation, or other engineering cor	ntrols to control airborn			
	(Ventilation etc.):	levels below recommended	d exposure limits.				
3.2.2	Personal protection equi	pment:					
	Eye Protection:	Safety glasses					
	Protective Gloves:	Compatible chemical-resist	tant gloves				
	Other Protective Clothing	g:Lab coat					
	Respiratory Equipment NIOSH approved respirator, as conditions warrant.						
	(Specify Type):						
	Work/Hygienic/Maintenar	n Do not take internally.					
	ce Practices:						
		Wash thoroughly after handling.					
		No data available.					
		action 0 Dhysical	and Chamical Proparties				
9.1			and Chemical Properties				
9.1	-	sical and Chemical Proper					
	Physical States:						
	Appearance and Odor:	A solution in chlorot	IOIIII				
	pH: Malting Daints	No data.					
	Melting Point:	No data.					
	Boiling Point:	No data.					
	Flash Pt:	No data.					
	Evaporation Rate:	No data.					
	Flammability (solid, gas)						
	Explosive Limits:	LEL: No data.	UEL: No data.				
	Vapor Pressure (vs. Air o	or mm 160 MM_HG at	20.0 C				
	Hg):						
	Vapor Density (vs. Air = 1	-					
	Specific Gravity (Water =	•					
	Solubility in Water:	No data.					
	Octanol/Water Partition	No data.					
	Coefficient:						



SAFETY DATA SHEET 1,2-Dioleoyl-sn-glycero-3-phosphate (ammonium

ay	man				salt)				
	Autoign			o data.					
	Decomp	osition Tempera	iture: N	o data.					
	Viscosit	у:	Ν	o data.					
.2	Other Inf	ormation							
	Percent	Volatile:	Ν	o data.					
	Molecul	ar Formula & We	eight: C	39H72O8P • NH4	718.0				
			See	ction 10. Stab	ility and	Reactivi	ty		
0.1	Reactivi	ty:	No data a	available.					
0.2	Stability	:	Unstable	[] Stable [X]					
0.3	Stability	Note(s):	Stable if s	stored in accordance	with informa	ation listed on	the product	insert.	
	Polymer	ization:	Will occu	r[] Will not oce	:ur [X]				
0.4	Conditio	ons To Avoid:	protect fro	om air, light, and hea	ıt				
0.5	Incompa	atibility - Materia	Is aluminum	ı					
	To Avoi	d:	lithium						
			magnesiu	ım					
			potassiur						
				odium oxides					
			strong ba						
			strong oxidizing agents carbon dioxide						
0.6	Hazardo								
	Decomposition or		carbon monoxide						
	Byprodu	icts:	chlorine						
			hydrogen chloride gas phosgene gas						
				-		Informat	ion		
1.1	Informat	tion on		tion 11. Toxic				udiad	
		ogical Effects:	The toxicological effects of this product have not been thoroughly studied. Chloroform - Toxicity Data: Oral LD50 (rat): 300 mg/kg; Oral LD50 (mouse): 36 mg/kg; Skin LD50						
	TOXICOIC	gical Effects.	(rabbit): > 20 gm/kg; Inhalation TCLO (human): 5,000 mg/m3 (7m); Inhalation LC50 (rat): 47,702						
			(abbi). > 20 gm/kg, milalation TCEO (numar). 5,000 mg/m3 (7m), milalation EC50 (rat). 47,702 mg/m3 (4h);						
			Chloroform - Irritation Data: Skin (rabbit):10 mg (24h) mild; Eye (rabbit): 20 mg (24h) moderate;						
	Chronic	Toxicological	Chloroform - Investigated as a carcinogen, mutagen, reproductive effector and tumorigen; May cause damage to organs through prolonged or repeated exposure.						
	Effects:								
			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.						
	• •		Chloroform - California Prop. 65 carcinogen.						
			Chloroform - IARC category 2B; NTP Carcinogen - reasonably anticipated;						
Carcin	nogenicity	/ :	NTP? No	IARC Monogra	phs? Yes	OSHA Reg	ulated? No		
CAS	#	Hazardous Con	nponents (Chemical Name)		NTP	IARC	ACGIH	OSHA
	NA	NA 1,2-Dioleoyl-sn-glycero-		hosphate (ammoniur	n salt)	n.a.	n.a.	n.a.	n.a.
67	-66-3	Chloroform				Possible	2B	A3	n.a.



Page: 6 of 7

1,2-Dioleoyl-sn-glycero-3-phosphate (ammonium

salt)

<u> </u>								
			Section 12. Ecolo	gical Informat	ion			
12.1	.1 Toxicity: Avoid release into the environment.							
			Runoff from fire control or dilution	n water may cause p	ollution.			
12.2	.2 Persistence and No data available.							
	Degradabili	ty:						
12.3	12.3 Bioaccumulative No data available.							
	Potential:							
12.4	Mobility in S	Soil:	No data available.					
12.5	Results of I	PBT and vPvB	No data available.					
	assessmen	t:						
12.6	Other adver	rse effects:	No data available.					
			Section 13. Dispos	al Considerat	ions			
13.1	Waste Disp	osal Method:	Dispose in accordance with loca	l, state, and federal r	egulations.			
			Section 14. Trans	sport Informat	ion			
14.1	LAND TRA	NSPORT (US I	DOT):					
D	OT Proper SI	hipping Name:	Chloroform Solution					
D	OT Hazard C	lass:	6.1 POISON					
U	N/NA Numbe	er:	1888	Packing Grou	ıp:	III		
			POISON 6					
14.1	LAND TRA	NSPORT (Euro	opean ADR/RID):					
A	DR/RID Ship	ping Name:	Chloroform Solution					
U	N Number:		1888	Packing Grou	ıp:	III		
н	azard Class:		6.1 - POISON					
14.3	AIR TRANS	SPORT (ICAO/I	ATA):					
IC	AO/IATA Sh	ipping Name:	Chloroform Solution					
_	N Number:		1888	Packing Grou	-	III		
	azard Class:		6.1 - POISON	IATA Classification: 6.1				
	ional Transp	ort	Transport in accordance with loc		•			
Inforr	nation:		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 h					
					-			
			Section 15. Regula					
CAS			ents and Reauthorization Act o	-	S. 304 RQ	6 212 (TDI)		
CAS			ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
NA 1,2-Dioleoyl-sn-glycero-3-phosphate (ammonium salt)		ycero-s-phosphate (ammonium	NO	INO	NO			
67	-66-3 Cł	nloroform		Yes 10000 LB	Yes 10 LB	Yes		
CAS	# Ha	azardous Com	ponents (Chemical Name)	Other US EPA or State Lists				
	NA 1,2 sa		lycero-3-phosphate (ammonium	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
ļ								



SAFETY DATA SHEET 1.2-Dioleovl-sn-glycero-3-phosphate (ammonium

Page: 7 of 7

67-66-3 Chloroform		1,2-Dioleoyl-sn-glycero-3-phosphate (ammonium Revision: 01/15/2018				
		salt)				
		CAA HAP,ODC: HAP; CWA NPDES: Yes; TSCA: Yes - Inventory, 8A CAIR; CA PROP.65: Yes: Canc+RDTox.				
Regulatory Inf Statement:	ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.				
		Section 16. Other Information				
Revision Date:		01/15/2018				
	ormation About	No data available.				
This Product: Company Policy or Disclaimer:		DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.				