

Revision: 08/11/2018

		according to	Regulation (EC) No. 1907/2006 as amended by (EC) No. 2	115/830 and US USHA HUS	2015				
		Section 1. Ide	entification of the Substance/Mixture and	of the Company/U	ndertaking				
.1	Product		25596						
	Product		1-Oleoyl-2-hydroxy-sn-glycero-3-PE						
	Synony	ms:	1-oleoyl-2-hydroxy-sn-glycero-3-phospha	-	3:1 LPE; 18:1 Lyso-PE;				
	1-Oleoyl-2-hydroxy-sn-glycero-3-phosphoethanolamine;								
.2	Relevant identified uses of the substance or mixture and uses advised against:								
	<b>Relevant identified uses:</b> For research use only, not for human or veterinary use.								
.3	Details of the Supplier of the Safety Data Sheet:								
	Comp	any Name:	Cayman Chemical Company 1180 E. Ellsworth Rd.						
			Ann Arbor, MI 48108						
	Web s	ite address:	www.caymanchem.com						
	Inform	nation:	Cayman Chemical Company	+1 (73	4)971-3335				
.4	Emerge	ncy telephone numb	er:						
	-	jency Contact:	CHEMTREC Within USA and Canada:	+1 (80	0)424-9300				
			CHEMTREC Outside USA and Canada:	+1 (70	3)527-3887				
			Section 2. Hazards Ident	ification					
				moaton					
2.1	Classifi	cation of the Substar		incation					
		cation of the Substar lements:		incation					
	Label El	lements:	nce or Mixture:						
	Label El GHS S	lements: Signal Word:							
	Label El GHS S GHS H	lements: Bignal Word: Hazard Phrases:	nce or Mixture: None		ccording to GHS.				
	Label El GHS S GHS H Based	lements: Bignal Word: Hazard Phrases:	nce or Mixture:		ccording to GHS.				
	Label El GHS S GHS H Based GHS F	lements: Signal Word: Hazard Phrases: I on evaluation of curre Precaution Phrases:	nce or Mixture: None		ccording to GHS.				
	Label El GHS S GHS H Based GHS F No phi	lements: Signal Word: Hazard Phrases: I on evaluation of curre Precaution Phrases: rases apply.	nce or Mixture: None		ccording to GHS.				
	Label El GHS S GHS H Based GHS F No phi GHS F	lements: Signal Word: Hazard Phrases: I on evaluation of curre Precaution Phrases:	nce or Mixture: None		ccording to GHS.				
	Label El GHS S GHS H Based GHS F No phi GHS F	lements: Signal Word: Hazard Phrases: I on evaluation of curre Precaution Phrases: rases apply. Response Phrases:	nce or Mixture: None ently available data this substance or mixture		ccording to GHS.				
	Label El GHS S GHS H Based GHS F No phi GHS S	lements: Signal Word: Hazard Phrases: I on evaluation of curre Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposa	nce or Mixture: None ently available data this substance or mixture	is not classifiable ad	ccording to GHS.				
2.2	Label El GHS S GHS H Based GHS F No phi GHS S Please	lements: Signal Word: Hazard Phrases: I on evaluation of curre Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposa e refer to Section 7 for	nce or Mixture: None ently available data this substance or mixture	is not classifiable ad	-				
2.2	Label El GHS S GHS H Based GHS F No ph GHS S Please Advers	lements: Signal Word: Hazard Phrases: I on evaluation of curre Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposa e refer to Section 7 for e Human Health	nce or Mixture: None ently available data this substance or mixture I Phrases: Storage and Section 13 for Disposal inform	is not classifiable ad ation. pranes and upper res	-				
2.2	Label El GHS S GHS H Based GHS F No ph GHS S Please Advers	lements: Signal Word: Hazard Phrases: I on evaluation of curre Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposal e refer to Section 7 for e Human Health M and Symptoms: M	None None ently available data this substance or mixture I Phrases: Storage and Section 13 for Disposal inform laterial may be irritating to the mucous mem lay be harmful by inhalation, ingestion, or sk lay cause eye, skin, or respiratory system irr	ation. branes and upper rest in absorption. itation.	spiratory tract.				
2	Label El GHS S GHS H Based GHS F No ph GHS S Please Advers	lements: Signal Word: Hazard Phrases: I on evaluation of curre Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposal e refer to Section 7 for e Human Health M and Symptoms: M	None None ently available data this substance or mixture I Phrases: Storage and Section 13 for Disposal inform laterial may be irritating to the mucous mem lay be harmful by inhalation, ingestion, or sk	ation. branes and upper rest in absorption. itation.	spiratory tract.				
2.1 2.2	Label El GHS S GHS H Based GHS F No ph GHS S Please Advers	lements: Signal Word: Hazard Phrases: I on evaluation of curre Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposal e refer to Section 7 for e Human Health M and Symptoms: M T	None None ently available data this substance or mixture I Phrases: Storage and Section 13 for Disposal inform laterial may be irritating to the mucous mem lay be harmful by inhalation, ingestion, or sk lay cause eye, skin, or respiratory system irr	ation. branes and upper res in absorption. itation. Il properties have no	spiratory tract. t been thoroughly investigate				
2.2	Label El GHS S GHS H Based GHS F No ph GHS S Please Advers Effects	lements: Signal Word: Hazard Phrases: I on evaluation of curre Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposa e refer to Section 7 for e Human Health M and Symptoms: M T Sectio	None None ently available data this substance or mixture I Phrases: Storage and Section 13 for Disposal information laterial may be irritating to the mucous mem lay be harmful by inhalation, ingestion, or sk lay cause eye, skin, or respiratory system irrited to the best of our knowledge, the toxicologication on the best of our knowledge, the toxicologication in 3. Composition/Information ments (Chemical Name)/ Concentration	ation. branes and upper res in absorption. itation. Il properties have no	spiratory tract. t been thoroughly investigate				
2.2 2.3 CAS RTEC	Label El GHS S GHS H Based GHS F No ph GHS S Please Advers Effects	lements: Signal Word: Hazard Phrases: I on evaluation of curre Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposal e refer to Section 7 for e Human Health M and Symptoms: M T Sectio Hazardous Compor	Ince or Mixture:     None     ently available data this substance or mixture     I Phrases:     Storage and Section 13 for Disposal information     Iaterial may be irritating to the mucous mem     Iay cause eye, skin, or respiratory system irrition     o the best of our knowledge, the toxicologica     In 3. Composition/Information     Inents (Chemical Name)/     In No.	ation. oranes and upper res in absorption. itation. Il properties have no <b>n on Ingredie</b> <b>EC No./</b>	spiratory tract. t been thoroughly investigate <b>nts</b>				

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		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.					
		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.					
	Unsuitable Extinguishing Media:	A solid water stream may be inefficient.					
5.2	Flammable Properties an	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.					
		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	Take steps to avoid release into the environment, if safe to do so.					
	Precautions:						
6.3	Methods and Material Fo	r Contain spill and collect, as appropriate.					
	Containment and Cleanir	hgTransfer to a chemical waste container for disposal in accordance with local regulations.					
	Up:						
		Section 7. Handling and Storage					
7.1	Precautions To Be Taken	Avoid breathing dust/fume/gas/mist/vapours/spray.					
	in Handling:	Avoid prolonged or repeated exposure.					
7.2	Precautions To Be Taken	Keep container tightly closed.					
	in Storing:	Store in accordance with information listed on the product insert.					
	Sec	tion 8. Exposure Controls/Personal Protection					
8.1	Exposure Parameters:						

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	HEMICAL							
8.2	Exposure Controls:							
8.2.1	Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne						
	(Ventilation etc.):	levels below recommended exposure limits.						
8.2.2	Personal protection equipment:							
	Eye Protection:	y glasses						
	Protective Gloves:	Compatible chemical-resistant gloves						
	Other Protective Clothing:Lab coat							
	Respiratory Equipment	NIOSH 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 eyewash and a safety shower.						
		Wash thoroughly after handling.						
		No data available.						
	Se	ection 9. Physical and Chemical Properties						
9.1	Information on Basic Physi	cal 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	mm No data.						
	Hg):							
	Vapor Density (vs. Air = 1):	No data.						
	Specific Gravity (Water = 1	): No data.						
	Solubility in Water:	No data.						
	Solubility Notes:	~3 mg/ml in DMSO;						
	Octanol/Water Partition	No data.						
	Coefficient:							
	Autoignition Pt:	No data.						
	Decomposition Temperatu							
	Viscosity:	No data.						
9.2	Other Information							
	Percent Volatile:	No data.						
	Molecular Formula & Weig	ht: C23H46NO7P 479.6						
1								



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			Sect	on 10. Stability an	d Reacti	vitv				
10.1	Reactiv	itv:	No data ava			· • • J				
10.2	Stability	-	Unstable [ ] Stable [ X ]							
10.3	-	v Note(s):	Stable if stored in accordance with information listed on the product insert.							
	Polymerization: Will occur [ ] Will not occur [ X ]									
10.4	-	ons To Avoid:	No data available.							
10.4										
10.5										
To Avoid:   10.6 Hazardous   No data available.										
10.0	Hazardous Decomposition or		No data available.							
	Byprod									
	Бургоц		<b>•</b> • •							
			Sectio	n 11. Toxicologica	al Informa	ation				
11.1	Informa	tion on	The toxicolo	gical effects of this product	have not beei	n thoroughly st	udied.			
	Toxicol	ogical Effects:								
Carci	nogenicit	y:	NTP? No IARC Monographs? No		OSHA R	OSHA Regulated? No				
CAS	#	Hazardous Com	ponents (Ch	emical Name)	NTP	IARC	ACGIH	OSHA		
895	76-29-4	1-Oleoyl-2-hydrox	ky-sn-glycero	-3-PE	n.a.	n.a.	n.a.	n.a.		
		·	Sect	ion 12. Ecological	Informat	ion	•			
12.1	Toxicity	:		se into the environment.						
	. existing		Runoff from fire control or dilution water may cause pollution.							
12.2	Persiste	ence and	No data ava		5 1					
	Degrada									
12.3	-	imulative	No data ava	ilable						
12.5	Potentia			mable.						
12.4		in Soil:	No data ava	ilabla						
	-									
12.5		of PBT and vPvB	NO Gala ava	liadie.						
10.0	assessment:									
12.6	Other adverse effects:     No data available.									
			Section	on 13. Disposal Co	onsiderat	ions				
13.1	.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.									
			Sec	tion 14. Transport	Informat	ion				
14.1	LAND 1	RANSPORT (US I	ООТ):							
D	OT Prope	er Shipping Name:	Not dar	igerous goods.						
D	OT Hazar	d Class:								
U	N/NA Nur	nber:								
14.1	LAND T	RANSPORT (Euro	opean ADR/I	RID):						
A	DR/RID S	hipping Name:	Not dar	gerous goods.						
u	N Numbe	r:								
н	lazard Cla	ISS:								



14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:

Transport in accordance with local, state, and federal regulations.

Not dangerous goods.

Information:

**Additional Transport** 

### Section 15. Regulatory Information

CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
89576-29-4	1-Oleoyl-2-hydroxy-sn-glycero-3-PE		No	No	No		
CAS #	AS # Hazardous Components (Chemical Name)			Other US EPA or State Lists			
89576-29-4	1-Oleoyl-2-hydro	xy-sn-glycero-3-PE	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulatory Inf Statement:	ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.					
		Section 16. Ot	her Informatio	n			
Revision Date:		08/11/2018					
Additional Information 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.					