

### SAFETY DATA SHEET

Revision: 07/15/2019 Supersedes Revision: 02/20/2015

	accordir	ng to Regulation (EC) No. 1907/2006 as a	amended by (EC) No. 2015	/830 and US OSHA HCS	2015		
	Section 1.	Identification of the Substar	nce/Mixture and of	the Company/U	ndertaking		
.1	Product Code:10011347Product Name:Glycerophospho-N-Arachidonoyl EthanolamineSynonyms:mono(2,3-dihydroxypropyl)-mono[2-[[(5Z,8Z,11Z,14Z)-1-oxo-5,8,11,14-eicosatetraen-1-yl]ethster phosphoric acid; Glycerophosphoanandamide; Glycerophospho-ArachidonoylEthanolamide; GP-NArE;						
.2		f the substance or mixture a					
_	<b>Relevant identified uses:</b> For research use only, not for human or veterinary use.						
.3	Details of the Supplier of the Company Name:	the Safety Data Sheet: Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 www.caymanchem.com	bany				
	Information:	Cayman Chemical Comp	bany	+1 (73	4)971-3335		
.4	Emergency telephone nur	mber:					
	Emergency Contact:	CHEMTREC Within USA			0)424-9300		
		CHEMTREC Outside US	SA and Canada:	+1 (70	3)527-3887		
		Section 2. Ha	zards Identifi	cation			
.1	Classification of the Subs	tance or Mixture:					
.2	Label Elements:						
	GHS Signal Word: GHS Hazard Phrases: Based on evaluation of cu GHS Precaution Phrase	None urrently available data this sub s:	stance or mixture is	not classifiable ac	cording to GHS.		
	No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Dispo		r Disposal informatic	on.			
2.3	No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Dispo	sal Phrases:	•		spiratory tract.		
2.3	No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Dispo Please refer to Section 7	<b>sal Phrases:</b> for Storage and Section 13 for Material may be irritating to t May be harmful by inhalatior May cause eye, skin, or resp	he mucous membra n, ingestion, or skin a piratory system irritat	anes and upper res absorption. tion.	spiratory tract.		
2.3	No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Dispo Please refer to Section 7 Adverse Human Health Effects and Symptoms:	<b>sal Phrases:</b> for Storage and Section 13 for Material may be irritating to t May be harmful by inhalatior May cause eye, skin, or resp	he mucous membra n, ingestion, or skin a piratory system irritat e, the toxicological p	anes and upper res absorption. tion. properties have not	been thoroughly investigated		
2.3 CAS	No phrases apply. GHS Response Phrases No phrases apply. GHS Storage and Dispo Please refer to Section 7 Adverse Human Health Effects and Symptoms: Sect	sal Phrases: for Storage and Section 13 for Material may be irritating to t May be harmful by inhalatior May cause eye, skin, or resp To the best of our knowledge ion 3. Composition	he mucous membra n, ingestion, or skin a piratory system irritat e, the toxicological p	anes and upper res absorption. tion. properties have not	been thoroughly investigated		



# SAFETY DATA SHEET Glycerophospho-N-Arachidonoyl Ethanolamine

Revision: 07/15/2019 Supersedes Revision: 02/20/2015

		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 Hazards:	dNo data available.
		No data available.
	Flash Pt:	No data.
	Explosive Limits:	LEL: No data. UEL: No data.
	Autoignition Pt:	No data.
5.3	Fire Fighting Instructions	<b>s:</b> 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 raising and breathing dust, and provide adequate ventilation.
	Protective Equipment an	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	Methods and Material Fo	r Contain spill and collect, as appropriate.
	Containment and Cleanir Up:	hgTransfer 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	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:	

Multi-region format



## SAFETY DATA SHEET

Glycerophospho-N-Arachidonoyl Ethanolamine

Revision: 07/15/2019 Supersedes Revision: 02/20/2015

8.2.1	Exposure Controls: Engineering Controls (Ventilation etc.): Personal protection equip Eye Protection: Protective Gloves: Other Protective Clothing Respiratory Equipment	Safety glasses Compatible chemical-resistant gloves					
8.2.2	(Ventilation etc.): Personal protection equip Eye Protection: Protective Gloves: Other Protective Clothing	levels below recommended exposure limits.					
8.2.2	Personal protection equip Eye Protection: Protective Gloves: Other Protective Clothing	oment: Safety glasses Compatible chemical-resistant gloves					
	Eye Protection: Protective Gloves: Other Protective Clothing	Safety glasses Compatible chemical-resistant gloves					
	Protective Gloves: Other Protective Clothing	Compatible chemical-resistant gloves					
	Other Protective Clothing						
	-	:Lab coat					
	Respiratory Equipment	Other Protective Clothing:Lab coat					
		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 facility and a safety					
		shower.					
		Wash thoroughly after handling.					
		No data available.					
	Se	ection 9. Physical and Chemical Properties					
9.1		sical 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:	~10 mg/ml in PBS (pH 7.2); ~20 mg/ml in DMSO & DMF;					
	Octanol/Water Partition	No data.					
	Coefficient:						
	Autoignition Pt:	No data.					
	Decomposition Temperate	ure: No data.					
	Viscosity:	No data.					
9.2	Other Information						
	Percent Volatile:	No data.					
	Molecular Formula & Weig	ght: C25H44NO7P 501.6					



# SAFETY DATA SHEET Glycerophospho-N-Arachidonoyl Ethanolamine

Revision: 07/15/2019 Supersedes Revision: 02/20/2015

			Section 10. Stability	ind Reacti	vity			
10.1 Reactivity: No data available.								
10.2 Stability: Unstable [] Stable [X]								
10.3 Stability Note(s): Polymerization:			Stable if stored in accordance with information listed on the product insert. Will occur [ ] Will not occur [ X ]					
<b>10.5</b> Incompatibility - Materials strong oxidizing agents								
	To Avoi	d:						
10.6	Hazardo	us	carbon dioxide					
	Decomp	osition or	carbon monoxide					
	Byprodu	icts:	nitrogen oxides					
			Section 11. Toxicologi	cal Informa	ation			
11.1	Informat	ion on	The toxicological effects of this produ	ct have not beer	n thoroughly st	udied.		
	Toxicolo	gical Effects:						
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
2017	38-25-2	Glyceropheaphe					n.a.	
		ayceropriosprio-	N-Arachidonoyl Ethanolamine	n.a.	n.a.	n.a.	n.a.	
		Giycerophospho-	·			n.a.	11.a.	
12 1			Section 12. Ecologic			n.a.	11.a.	
12.1	Toxicity		Section 12. Ecologic Avoid release into the environment.	al Informat	ion	n.a.	11.0.	
	Toxicity	<u> </u>	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa	al Informat	ion	n.a.	11.0.	
12.1 12.2	Toxicity Persiste	nce and	Section 12. Ecologic Avoid release into the environment.	al Informat	ion	n.a.	11.0.	
12.2	Toxicity Persiste Degrada	nce and bility:	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available.	al Informat	ion	n.a.	11.2.	
	Toxicity Persiste Degrada Bioaccu	nce and bility: mulative	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa	al Informat	ion	n.a.		
12.2 12.3	Toxicity Persiste Degrada Bioaccu Potentia	nce and bility: mulative I:	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available.	al Informat	ion	n.a.	11.0.	
12.2 12.3 12.4	Toxicity Persiste Degrada Bioaccu Potentia Mobility	nce and bility: mulative I: in Soil:	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available.	al Informat	ion	n.a.		
12.2 12.3	Toxicity Persiste Degrada Bioaccu Potentia Mobility Results	nce and bility: mulative I: in Soil: of PBT and vPvB	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available.	al Informat	ion	n.a.		
12.2 12.3 12.4 12.5	Toxicity Persiste Degrada Bioaccu Potentia Mobility Results assessm	nce and bility: mulative I: in Soil: of PBT and vPvB nent:	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available.	al Informat	ion	n.a.		
12.2 12.3 12.4	Toxicity Persiste Degrada Bioaccu Potentia Mobility Results assessm	nce and bility: mulative I: in Soil: of PBT and vPvB	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available.	al Informat	ion	n.a.	11.0.	
12.2 12.3 12.4 12.5	Toxicity Persiste Degrada Bioaccu Potentia Mobility Results assessm	nce and bility: mulative I: in Soil: of PBT and vPvB nent:	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available.	al Informat	ion	n.a.	11.d.	
12.2 12.3 12.4 12.5	Toxicity Persiste Degrada Bioaccu Potentia Mobility Results assesse Other ac	nce and bility: mulative l: in Soil: of PBT and vPvB nent: Iverse effects:	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available.	al Informat er may cause p Considerat	ion ollution.	n.a.		
12.2 12.3 12.4 12.5 12.6	Toxicity Persiste Degrada Bioaccu Potentia Mobility Results assesse Other ac	nce and bility: mulative l: in Soil: of PBT and vPvB nent: Iverse effects:	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. Section 13. Disposal (	al Informat er may cause p Considerat e, and federal r	ion ollution. ions egulations.	n.a.		
12.2 12.3 12.4 12.5 12.6	Toxicity Persiste Degrada Bioaccu Potentia Mobility Results assess Other ac	nce and bility: mulative l: in Soil: of PBT and vPvB nent: Iverse effects:	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. Section 13. Disposal ( Dispose in accordance with local, sta Section 14. Transpo	al Informat er may cause p Considerat e, and federal r	ion ollution. ions egulations.	n.a.		
12.2 12.3 12.4 12.5 12.6 13.1 14.1	Toxicity Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ac Waste D	nce and bility: mulative l: in Soil: of PBT and vPvB hent: lverse effects: isposal Method:	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal ( Dispose in accordance with local, sta Section 14. Transpo	al Informat er may cause p Considerat e, and federal r	ion ollution. ions egulations.	n.a.		
12.2 12.3 12.4 12.5 12.6 13.1 14.1 D	Toxicity Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ac Waste D	nce and bility: mulative l: in Soil: of PBT and vPvB hent: lverse effects: isposal Method: RANSPORT (US I r Shipping Name:	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal ( Dispose in accordance with local, sta Section 14. Transpo	al Informat er may cause p Considerat e, and federal r	ion ollution. ions egulations.	n.a.		
12.2 12.3 12.4 12.5 12.6 13.1 14.1 D	Toxicity Persiste Degrada Bioaccu Potentia Mobility Results assessn Other ac Waste D LAND T	nce and bility: mulative l: in Soil: of PBT and vPvB nent: Iverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class:	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal ( Dispose in accordance with local, sta Section 14. Transpo	al Informat er may cause p Considerat e, and federal r	ion ollution. ions egulations.	n.a.		
12.2 12.3 12.4 12.5 12.6 13.1 14.1 D	Toxicity Persiste Degrada Bioaccu Potentia Mobility Results assessn Other ac Waste D LAND T OT Prope OT Hazar N/NA Nur	nce and bility: mulative l: in Soil: of PBT and vPvB nent: Iverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class:	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal ( Dispose in accordance with local, sta Section 14. Transpo	al Informat er may cause p Considerat e, and federal r	ion ollution. ions egulations.	n.a.		
12.2 12.3 12.4 12.5 12.6 13.1 14.1 D U 14.1	Toxicity Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazar N/NA Nur LAND T	nce and bility: mulative l: in Soil: of PBT and vPvB hent: lverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: nber:	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal ( Dispose in accordance with local, sta Section 14. Transpo	al Informat er may cause p Considerat e, and federal r	ion ollution. ions egulations.	n.a.		
12.2 12.3 12.4 12.5 12.6 13.1 14.1 D U 14.1 A	Toxicity Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazar N/NA Nur LAND T	nce and bility: mulative l: in Soil: of PBT and vPvB nent: lverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: nber: RANSPORT (Euro hipping Name:	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal ( Dispose in accordance with local, sta Section 14. Transpo DOT): Not dangerous goods.	al Informat er may cause p Considerat e, and federal r	ion ollution. ions egulations.			



## SAFETY DATA SHEET

Glycerophospho-N-Arachidonoyl Ethanolamine

Revision: 07/15/2019 Supersedes Revision: 02/20/2015

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not dangerous goods.

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

Information:

**Additional Transport** 

### Section 15. Regulatory Information

CAS # Hazardous Com		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
201738-25-2	Glycerophospho-	N-Arachidonoyl Ethanolamine	No	No	No	
CAS # Hazardous Com		ponents (Chemical Name)	Other US EPA or S	State Lists	•	
201738-25-2	Glycerophospho-	N-Arachidonoyl Ethanolamine	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Info Statement:	ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.				
		Section 16. Oth	ner Information	า		
Revision Date:		07/15/2019				
Additional Infor	rmation About	No data available.				
This Product:						
Company Polic	y 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.				