

SAFETY DATA SHEET 1-Palmitoyl-2-12-OAHSA-3-Oleoyl-sn-glycerol

Revision: 05/01/2015 Supersedes Revision: 04/21/2015

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008 and US OSHA HCS 2015 Section 1. Identification of the Substance/Mixture and of the Company/Undertaking 1.1 **Product Code:** 29407 **Product Name:** 1-Palmitoyl-2-12-OAHSA-3-Oleoyl-sn-glycerol Synonyms: 18-(((R)-1-(oleoyloxy)-3-(palmitoyloxy)propan-2-yl)oxy)-18-oxooctadecan-7-yl oleate; 16:0-12-OAHSA-18:1-TG; TG(16:0/12-OAHSA/18:1); 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 veterinary 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 number:** CHEMTREC Within USA and Canada: +1 (800)424-9300 **Emergency Contact:** CHEMTREC Outside USA and Canada: +1 (703)527-3887 Section 2. Hazards Identification 2.1 **Classification of the Substance or Mixture:** 2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP] and USA OSHA HCS 2012: Flammable Liquids, Category 2 Serious Eye Damage/Eye Irritation, Category 2 Specific Target Organ Toxicity (single exposure), Category 3 2.2 Label Elements: 2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP] and USA OSHA HCS 2012: **GHS Signal Word:** Danger **GHS Hazard Phrases:** EUH066: Repeated exposure may cause skin dryness or cracking. H225: Highly flammable liquid and vapor. H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness. **GHS Precautionary Phrases:** P210: Keep away from {heat/sparks/open flames/hot surfaces}. - No smoking. P261: Avoid breathing {dust/fume/gas/mist/vapors/spray}. P264: Wash {hands} thoroughly after handling. P280: Wear {protective gloves/protective clothing/eye protection/face protection}. **GHS Response Phrases:** P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. 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.

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	1			SAFE	TY DA	TA SHE	EET				Page: 3 of 6
6	7	1-P a	almito	yl-2-12-0	DAHSA	-3-Oleo	yl-si	n-glyo	cerol	Devisio	05/04/0045
Cay	man			U			v				on: 05/01/2015 on: 04/21/2015
	Explosive Limits:	LEL:	3.1%	at 25.0 0	UEL	: 16.0%	at	25.0 C	Caption		
	Autoignition Pt:	455.00									
5.3		: As in a	anv fire, w	ear self-con	tained brea	thing appar	atus p	ressure	-demand	(NIOSH a	nproved or
	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.										
		-		le as diluted	-						
		Sect	tion 6.	Accide	ntal Rel	ease M	leas	ures			
6.1	Protective Precautions,			g vapors and							
 			-		-	-			reathing	apparatus	, or respirator,
	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			avoid release						-	•
•	Precautions:		•••F • •			, , , , , , , , , , , , , , , , , , ,					
6.3	Methods and Material For	r Conta	ain spill ar	nd collect, as	appropriat	e.					
	Methods and Material For Contain spill and collect, as appropriate. Containment and CleaningTransfer to a chemical waste container for disposal in accordance with local regulations.								tions.		
	Up:	5								-	
	-		0	7 11-			. =				
			Sectio	n 7. Ha	ndling a	and Sto	rage	<u>)</u>			
7.1	Precautions To Be Taken		-	-							
	in Handling:	Avoid prolonged or repeated exposure.									
		Keep away from sources of ignition. Take precautionary measures against static discharge.									
		-		-	-		arge.				
7.2		n Keep away from heat, sparks, and flame.									
	in Storing:	Keep container tightly closed.									
	· · ·	Store in accordance with information listed on the product insert.									
	Other Precautions:	Protec	ct from mo	bisture.							
	Sec	tion 8	3. Exp	osure C	ontrols	/Person	al P	rotec	tion		
8.1	Exposure Parameters:										
CAS #	Chemical Name		Jurisdic	tion	Reco	mmended	Expo	sure Lir	nits		Notations
79-20-	-9 Methyl acetate		ACGIH ⁻	TLV	TLV:	200 ppm					
ļ					STEL	250 ppm					
			France V	/L	TWA:	610 mg/m3 (200 pp	m)			

 STEL: 760 mg/m3 (250 ppm)

 OSHA PELs
 PEL: 200 ppm

 Britain EH40
 TWA: 616 mg/m3 (200 ppm)

 STEL: 770 mg/m3 (250 ppm)

8.2 Exposure Controls:

8.2.1 Engineering Controls (Ventilation etc.):

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.



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	HEMICAL	Supersedes Revision: 04/21/2						
8.2.2	Personal protection equi	pment:						
	Eye Protection:	Safety 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:	ies storing or utilizing this material should be equipped with an eyewash and a safety shower.						
		Wash thoroughly after handling.						
		No data available.						
	S	ection 9. Physical and Chemical Properties						
9.1		sical and Chemical Properties						
9.1	-	-						
	Physical States:							
	Appearance and Odor:	A solution in methyl acetate						
	pH:	No data.						
	Melting Point:	No data.						
	Boiling Point:	No data.						
	Flash Pt:	-10.00 C Method Used: Closed Cup						
	Evaporation Rate:	No data.						
	Flammability (solid, gas):							
	Explosive Limits:	LEL: 3.1% at 25.0 C UEL: 16.0% at 25.0 C						
	Vapor Pressure (vs. Air or mm 173 MM_HG at 20.0 C							
	Hg):							
	Vapor Density (vs. Air = 1	-						
	Specific Gravity (Water =	1): No data.						
	Solubility in Water:	No data.						
	Octanol/Water Partition	No data.						
	Coefficient:							
	Autoignition Pt:	455.00 C						
	Decomposition Temperat	ure: No data.						
	Viscosity:	No data.						
9.2	Other Information							
	Percent Volatile:	No data.						
	Molecular Formula & Wei	ght: C73H136O8 1141.9						
		Section 10. Stability and Reactivity						
10.1	Reactivity:	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.						
	Polymerization:	Will occur [] Will not occur [X]						
10.4	Conditions To Avoid:	heat, flames, and sparks						
10.4	Incompatibility - Materials	-						
10.5	To Avoid:	alkalis						
		nitrates						
		strong oxidizing agents						
10 6	Hazardous	carbon dioxide						
10.6		carbon dioxide						
	Decomposition or							
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Byproducts: Section 11. Toxicological Information 11.1 Information on The toxicological effects of this product have not been thoroughly studied. Methyl Acetate - Toxicity Data: Oral LD50 (rat): >5,000 mg/kg; Oral LD50 (rabbit): 3,705 mg/kg; **Toxicological Effects:** Skin LD50 (rabbit): >5,000 mg/kg; Inhalation TCLO (human): 15,000 mg/m3; Methyl Acetate - Irritation Data: Skin (rabbit): 500 mg (24h) mild; Eyes (rabbit): 100 mg (24h) moderate; Methyl Acetate - Investigated as a mutagen and primary irritant. **Chronic Toxicological** Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. Effects: See actual entry in RTECS for complete information. Methyl Acetate RTECS Number: Al9100000 NTP? No IARC Monographs? No Carcinogenicity: **OSHA Regulated? No** CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH **OSHA** NA 1-Palmitoyl-2-12-OAHSA-3-Oleoyl-sn-glycerol n.a. n.a. n.a. n.a. 79-20-9 Methyl acetate n.a. n.a. n.a. n.a. Section 12. Ecological Information 12.1 **Toxicity:** Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 12.2 Persistence and No data available. **Degradability:** 12.3 **Bioaccumulative** No data available. **Potential:** 12.4 Mobility in Soil: No data available. 12.5 Results of PBT and vPvB No data available. assessment: No data available. 12.6 Other adverse effects: Section 13. Disposal Considerations Dispose in accordance with local, state, and federal regulations. 13.1 Waste Disposal Method: Section 14. Transport Information 14.1 LAND TRANSPORT (US DOT): **DOT Proper Shipping Name:** Methyl Acetate Solution **DOT Hazard Class:** 3 FLAMMABLE LIQUID UN/NA Number: 1231 **Packing Group:** Ш 14.1 LAND TRANSPORT (European ADR/RID): ADR/RID Shipping Name: Methyl Acetate Solution **UN Number:** 1231 **Packing Group:** Ш Hazard Class: 3 - FLAMMABLE LIQUID



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	Transport in accordance with local, state, and federal regulations.								
-	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								
		-							
mendments and Reauthorization Act	of 1986) Lists								
us Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)						
yl-2-12-OAHSA-3-Oleoyl-sn-glycerol	No	No	No						
etate	No	No	No						
us Components (Chemical Name)	Other US EPA or State Lists								
yl-2-12-OAHSA-3-Oleoyl-sn-glycerol	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No								
etate		NP,ODC: No; CWA NPDES: No; TSCA: Yes - y, 8A PAIR; CA PROP.65: No							
This SDS was prepared in acc	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)								
No.1272/2008.	No.1272/2008.								
Section 16. Ot	her Informatio	n							
05/01/2015	05/01/2015								
No data available.	No data available.								
currently available to us. Howe express or implied, with respec	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.								
	1231 3 - FLAMMABLE LIQUID Transport in accordance with le When sold in quantities of less E1, E2, E4, or E5, this item me Therefore packaging does not Section 15. Regu Amendments and Reauthorization Act as Components (Chemical Name) pyl-2-12-OAHSA-3-OleoyI-sn-glycerol cetate as Components (Chemical Name) pyl-2-12-OAHSA-3-OleoyI-sn-glycerol cetate This SDS was prepared in acc No.1272/2008. Section 16. Ot 05/01/2015 bout No data available. aimer: DISCLAIMER: This information currently available to us. Howe express or implied, with respect use. Users should make their	Name: Methyl Acetate Solution 1231 Packing Grou 3 - FLAMMABLE LIQUID IATA Classifi Transport in accordance with local, state, and federa When sold in quantities of less than or equal to 1 mL E1, E2, E4, or E5, this item meets the De Minimis Quartherefore packaging does not have to be labeled as Section 15. Regulatory Informa Amendments and Reauthorization Act of 1986) Lists us Components (Chemical Name) S. 302 (EHS) pyl-2-12-OAHSA-3-Oleoyl-sn-glycerol No us Components (Chemical Name) Other US EPA or an an antiperiod state pyl-2-12-OAHSA-3-Oleoyl-sn-glycerol No us Components (Chemical Name) Other US EPA or an antiperiod state pyl-2-12-OAHSA-3-Oleoyl-sn-glycerol CAA HAP,ODC: N pyl-2-12-OAHSA-3-Oleoyl-sn-glycerol <td>Name: Methyl Acetate Solution 1231 Packing Group: 3 - FLAMMABLE LIQUID IATA Classification: Transport in accordance with local, state, and federal regulations. When sold in quantities of less than or equal to 1 mL, or 1 g, with an E1, E2, E4, or E5, this item meets the De Minimis Quantities exempt Therefore packaging does not have to be labeled as Dangerous Good Section 15. Regulatory Information Amendments and Reauthorization Act of 1986) Lists us Components (Chemical Name) S. 302 (EHS) S. 304 RQ vpl-2-12-OAHSA-3-Oleoyl-sn-glycerol No No No us Components (Chemical Name) Other US EPA or State Lists PROP.65: No vpl-2-12-OAHSA-3-Oleoyl-sn-glycerol CAA HAP,ODC: No; CWA NPDES vpl-2-12-OAHSA-3-Oleoyl-sn-glycero</td>	Name: Methyl Acetate Solution 1231 Packing Group: 3 - FLAMMABLE LIQUID IATA Classification: Transport in accordance with local, state, and federal regulations. When sold in quantities of less than or equal to 1 mL, or 1 g, with an E1, E2, E4, or E5, this item meets the De Minimis Quantities exempt Therefore packaging does not have to be labeled as Dangerous Good Section 15. Regulatory Information Amendments and Reauthorization Act of 1986) Lists us Components (Chemical Name) S. 302 (EHS) S. 304 RQ vpl-2-12-OAHSA-3-Oleoyl-sn-glycerol No No No us Components (Chemical Name) Other US EPA or State Lists PROP.65: No vpl-2-12-OAHSA-3-Oleoyl-sn-glycerol CAA HAP,ODC: No; CWA NPDES vpl-2-12-OAHSA-3-Oleoyl-sn-glycero						

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