

Revision: 11/01/2018 Supersedes Revision: 02/06/2015

	×	ding to Degulation (EC) No. 1007/2007 as amonded by (EC) No. 2015/020					
		according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830 and US OSHA HCS 2015					
	Section I.	Identification of the Substance/Mixture and of th	e Company/Undertaking				
1	Product Code:	90350					
	Product Name:	Palmitoyl Ethanolamide					
	Synonyms:	N-(2-hydroxyethyl)-hexadecanamide; Palmidro	l; PEA;				
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.						
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	.4 (704)074 0005				
_	Information:	Cayman Chemical Company	+1 (734)971-3335				
1	Emergency telephone nu						
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300				
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
		Section 2. Hazards Identifica	ation				
1	Classification of the Sub	stance or Mixture:					
2.1		Classification of the Substance or Mixture:					
2	Skin Corrosion/Irritatio Serious Eye Damage/E Aquatic Toxicity (Chro Label Elements:	ye Irritation, Category 1					
2	Serious Eye Damage/E Aquatic Toxicity (Chro	ye Irritation, Category 1					
2	Serious Eye Damage/E Aquatic Toxicity (Chro Label Elements:	ye Irritation, Category 1 nic), Category 1					
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2	Serious Eye Damage/E Aquatic Toxicity (Chro Label Elements:	Eye Irritation, Category 1 nic), Category 1 Danger					
2	Serious Eye Damage/E Aquatic Toxicity (Chro Label Elements: GHS Signal Word: GHS Hazard Phrases:	Eye Irritation, Category 1 nic), Category 1 Danger					
2	Serious Eye Damage/E Aquatic Toxicity (Chro Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritar H318: Causes serious e	Eye Irritation, Category 1 nic), Category 1 Danger					
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2	Serious Eye Damage/E Aquatic Toxicity (Chro Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat H318: Causes serious e H410: Very toxic to aqua	Eye Irritation, Category 1 nic), Category 1 Danger tion. ye damage. atic life with long lasting effects. es:					
2	Serious Eye Damage/E Aquatic Toxicity (Chro Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat H318: Causes serious e H410: Very toxic to aqua	Eye Irritation, Category 1 nic), Category 1 Danger tion. ye damage. atic life with long lasting effects. es: proughly after handling.					
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2.3	Advers	e Human Health	Causes serious eye damage	•					
	Effects and Symptoms:		Causes skin irritation.						
			Material may be irritating to the mucous membranes and upper respiratory tract.						
			May be harmful by inhalation	May be harmful by inhalation, ingestion, or skin absorption.					
			May cause respiratory syster	n irritation.					
			Very toxic to aquatic life with	long lasting effects	6.				
			To the best of our knowledge	e, the toxicological	properties have no	t been thoroughly investigated.			
		Sec	tion 3. Composition	/Information	on Ingredie	nts			
CAS	#/	Hazardous Com	ponents (Chemical Name)/	Concentration	EC No./	GHS Classification			
RTE	CS #	REACH Registra	tion No.		EC Index No.				
544	4-31-0	Palmitoyl Ethanolar	nide	100.0 %	208-867-9	Skin Corr. 2: H315			
ML89	50000				NA	Eye Damage 1: H318			
						Aquatic (C) 1: H410			
			Section 4. Fi	rst Aid Meas	sures				
4.1	-	otion of First Aid							
	Measu								
	In Case	e of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel.						
			Get immediate medical attention.						
	In Case	e of Skin Contact:	-			5 minutes. Remove contaminated			
			clothing. Get medical attention if symptoms occur. Wash clothing before reuse. Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined						
	In Case	e of Eye Contact:							
			and tested by medical personnel.						
	In Case	e 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.	dical attention. Do I	NOT induce vomiti	ng unless directed to do so by			
			-						
			Section 5. Fire	<u> </u>					
5.1		e Extinguishing	Use alcohol-resistant foam, o		-	spray.			
	Media:		Use water spray to cool fire-exposed containers.						
	Unsuitable Extinguishing A solid water stream may be inefficient. Media:								
5.2			ndNo data available.						
5.2	Hazard	-							
	nazara	5.	No data available.						
	Flash F	D+ -	No data.						
		ive Limits:	LEL: No data.	UEL: No o	data				
	-		No data.	OLL. NO	Jala.				
	-	nition Pt:							
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.								
			equivalent), and full protectiv	e gear to prevent o	contact with skin ar	iu eyes.			
1									



## SAFETY DATA SHEET **Palmitovl Ethanolamide**

Cay	man	r annitoyr Ethanolannue	Revision: 11/01/2018 Supersedes Revision: 02/06/2015
		Section 6. Accidental Release Measures	S
6.1		Avoid raising and breathing dust, and provide adequate ventil As conditions warrant, wear a NIOSH approved self-contained and appropriate personal protection (rubber boots, safety gog	d breathing apparatus, or respirator,
6.2	Environmental Precautions:	Take steps to avoid release into the environment, if safe to do	) SO.
6.3		Contain spill and collect, as appropriate. Transfer to a chemical waste container for disposal in accorda	ance with local regulations.
		Section 7. Handling and Storage	
7.1 7.2	in Handling: Precautions To Be Taken	Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure. Keep container tightly closed. Store in accordance with information listed on the product inse	ert.
	Secti	on 8. Exposure Controls/Personal Prote	ection
8.1 8.2 8.2.1	Exposure Parameters: Exposure Controls: Engineering Controls	Use process enclosures, local exhaust ventilation, or other en	
8.2.2	Personal protection equip	levels below recommended exposure limits. <b>ment:</b> Safety glasses	
	-	Compatible chemical-resistant gloves	
	Respiratory Equipment (Specify Type):	NIOSH approved respirator, as conditions warrant.	
		Do not take internally. Facilities storing or utilizing this material should be equipped w shower. Wash thoroughly after handling. No data available.	vith an eyewash facility and a safety
	Se	ction 9. Physical and Chemical Propert	ies
9.1	Information on Basic Physic 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):		

Multi-region format



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	Specific	Gravity (Water =	1): No data.						
	Solubility in Water:		No data.	No data.					
	Solubility Notes:		~10 µg/ml in a 1:10 solution of Et	~10 μg/ml in a 1:10 solution of EtOH:PBS (pH 7.2); ~2 mg/ml in EtOH; ~5 mg/ml in DMSO;					
			~10 mg/ml in DMF;						
	Octanol/	Water Partition	No data.						
	Coefficie	ent:							
	Autoigni	tion Pt:	No data.						
	Decomp	osition Temperate	ure: No data.						
	Viscosity	<b>y</b> :	No data.						
9.2	Other Info	ormation							
	Percent	Volatile:	No data.						
	Molecular Formula & Weight:		ght: C18H37NO2 299.5						
			Section 10. Stability and	d Reactiv	/ity				
10.1	Reactivit	y:	No data available.		<u>,</u>				
10.2	Stability	-	Unstable [ ] Stable [ X ]						
10.3	Stability	Note(s):	Stable if stored in accordance with inform	nation listed o	n the product i	nsert.			
	Polymer	ization:	Will occur [ ] Will not occur [ X ]						
10.4	Conditio	ns To Avoid:	No data available.						
10.5	Incompa	tibility - Materials	s strong oxidizing agents						
	To Avoid	1:							
10.6	Hazardo	us	carbon dioxide						
	Decomp	osition or	carbon monoxide						
	Byprodu	cts:	nitrogen oxides						
			Section 11. Toxicologica	l Informa	tion				
11.1	Informat	ion on	The toxicological effects of this product have not been thoroughly studied. Palmitoyl Ethanolamide - Toxicity Data: Intraperitoneal TDLo (mouse): 3.2 mg/kg; Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information.						
	Toxicolo	gical Effects:							
	Chronic	Toxicological							
	Effects:	-							
			Palmitoyl Ethanolamide RTECS Number	: ML8950000					
CAS # Hazardous Comp		Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
544	-31-0	Palmitoyl Ethanol	lamide	n.a.	n.a.	n.a.	n.a.		
			Section 12. Ecological	nformati	on	•			
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	2.3 Bioaccumulative No		No data available.						
	Potential:								
12.4	4 Mobility in Soil: No d		No data available.						
12.5 Results of PBT and vPvB		of PBT and vPvB							
	assessm	ient:							
12.6	12.6 Other adverse effects:		No data available.						



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		Section 13. Dispos	sal Considerat	ions		
13.1 Waste I	<b>1 Waste Disposal Method:</b> Dispose in accordance with local, state, and federal regulations.					
		Section 14. Tran	sport Informat	ion		
14.1 LAND	<b>FRANSPORT (US</b>	DOT):				
DOT Prope	er Shipping Name	: Not dangerous goods.				
DOT Haza	rd Class:					
UN/NA Nu	mber:					
	-	opean ADR/RID):				
	Shipping Name:	Not dangerous goods.				
UN Numbe Hazard Cla						
		// АТА).				
	ANSPORT (ICAO/ Shipping Name:	•				
Additional Tra		Transport in accordance with lo	ocal state and federa	l regulations		
Information:	lisport	mansport in accordance with it	cal, state, and redera	regulations.		
		Section 15 Page	latory Informa	tion		
		Section 15. Regu	<u> </u>	lion		
		nents and Reauthorization Act	-	C 204 DO		
CAS # 544-31-0	Palmitoyl Ethanc	nponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
			No No No			
CAS #		nponents (Chemical Name)	Other US EPA or State Lists			
544-31-0	Palmitoyl Ethanc	blamide	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No			
Regulatory Inf	ormation	This SDS was prepared in acco	ordance with 29 CFR	1910.1200 and Re	egulation (EC)	
Statement:		No.1272/2008.				
		Section 16. Otl	ner Informatio	า		
Revision Date:		11/01/2018				
Additional Info	rmation About	No data available.				
This Product:						
Company Polic	cy or Disclaimer:	DISCLAIMER: This information	is believed to be accu	urate and represe	nts 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 fo				
		their particular purposes.	own investigations to c	etermine the suit	ability of the information f	
		their particular purposes.				