

Revision: 03/16/2018

Supersedes Revision: 03/26/2015 according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008 Section 1. Identification of the Substance/Mixture and of the Company/Undertaking 1.1 **Product Code:** 90050 Product Name: Arachidonoyl Ethanolamide Synonyms: N-(2-hydroxyethyl)-5Z,8Z,11Z,14Z-eicosatetraenamide; AEA; Anandamide; 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: Cayman Chemical Company Company Name: 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: Emergency Contact:** CHEMTREC Within USA and Canada: +1 (800)424-9300 CHEMTREC Outside USA and Canada: +1 (703)527-3887 Section 2. Hazards Identification **Classification of the Substance or Mixture:** 2.1 Flammable Liquids, Category 2 2.2 Label Elements: **GHS Signal Word:** Danger **GHS Hazard Phrases:** H225: Highly flammable liquid and vapor. **GHS Precaution Phrases:** P210: Keep away from {heat/sparks/open flames/hot surfaces}. - No smoking. 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. **GHS Storage and Disposal Phrases:** Please refer to Section 7 for Storage and Section 13 for Disposal information. Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract. 2.3 May be harmful by inhalation, ingestion, or skin absorption. **Effects and Symptoms:** May cause eye, skin, or respiratory system irritation. To the best of our knowledge, the toxicological properties have not been thoroughly investigated. Section 3. Composition/Information on Ingredients Hazardous Components (Chemical Name)/ EC No./ **GHS Classification** CAS #/ Concentration **RTECS # REACH Registration No.** EC Index No.



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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.			
4.2	Important Symptoms and Effects, Both Acute and Delayed:	May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects.			
		Section 5. Fire Fighting Measures			
لـــــ 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 and Can release vapors that form explosive mixtures at temperatures at or above the flashpoint.				
	Hazards:	Container explosion may occur under fire conditions.			
		Emits toxic fumes under fire conditions.			
		Sensitive to static discharge.			
		Vapors can travel to a source of ignition and flash back.			
		No data available.			
	Flash Pt:	14.00 C Method Used: Closed Cup			
	Explosive Limits:	LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C			
	Autoignition Pt:	363.00 C			
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. Note: Flammable as diluted in ethanol.			
		Section 6. Accidental Release Measures			
6.1	Protective Precautions,	Avoid breathing vapors and provide adequate ventilation.			
	Protective Equipment and	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 For Contain spill and collect, as appropriate.				
	Containment and Cleanir Up:	gTransfer to a chemical waste container for disposal in accordance with local regulations.			



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		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.				
		Keep away from sources of ignition.				
		Take precautionary measures against static discharge.				
7.2	Precautions To Be Taken	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:	Hygroscopic				
		Light sensitive				
		Air sensitive				
	Sect	tion 8. Exposure Controls/Personal Protection				
8.1	Exposure Parameters:					
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 equip	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:					
		Wash thoroughly after handling.				
		No data available.				
	S	ection 9. Physical and Chemical Properties				
9 .1		sical and Chemical Properties				
	Physical States:	[]Gas [X]Liquid []Solid				
	Appearance and Odor:	A solution in ethanol				
	pH:	No data.				
	Melting Point:	No data.				
	Boiling Point:	No data.				
	Flash Pt:	14.00 C Method Used: Closed Cup				
	Evaporation Rate:	No data.				
	Flammability (solid, gas):	No data available.				
	Explosive Limits:	LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C				
		r mm 43 MM_HG at 20.0 C				
	Vapor Pressure (vs. Air o	—				
	Hg):	_				



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CAS	# Hazardous Cor	nponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
Carcir	nogenicity:	NTP? No IARC Mono	- · ·	Regulated? No			
		Arachidonoyl Ethanolamide		12500			
		-	ee actual entry in RTECS for complete information. thanol RTECS Number: KQ6300000				
		Only select Registry of Tox		-	S) data is pre	sented here.	
	Effects:	Arachidonoyl Ethanolamide					
	Chronic Toxicological	Ethanol - Investigated as a	mutagen, reproductive e	ffector, and tume	origen.		
		TDLO (mouse): 10 mg/kg;			,		
		Arachidonoyl Ethanolamide				-	
		(6h); Inhalation LCLO (mou Ethanol - Irritation Data: Ey	, , , ,,) mild: Skin (rabb	nit): 20 ma (24	h) moderate:	
		ppm (30m); Inhalation TCL		3 (20m); Inhalatio	n LC50 (rat):	5,900 mg/m3	
		(rabbit): 6,300 mg/kg; Inhal			-	-	
		(rat): 7,060 mg/kg; Oral LD					
	Toxicological Effects:	Ethanol - Toxicity Data: Ora		0,		(g; Oral LD50	
11.1	Information on	The toxicological effects of			Idied		
		Section 11. Tox		nation			
	Byproducts:						
	Decomposition or	carbon monoxide					
10.6	Hazardous	carbon dioxide					
		peroxides strong oxidizing agents					
	To Avoid:	ammonia					
10.5	Incompatibility - Materia						
10.4	Conditions To Avoid:	heat, flames and sparks					
	Polymerization:	Will occur [] Will not	occur [X]				
10.3	Stability Note(s):	Stable if stored in accordar	ce with information listed	d on the product i	insert.		
10.2	Stability:	Unstable [] Stable [>]				
10.1	Reactivity:	No data available.					
		Section 10. Sta	ability and React	tivity			
	Molecular Formula & We	eight: C22H37NO2 3	47.5				
	Percent Volatile:	No data.					
9.2	Other Information						
	Viscosity:	No data.					
	Decomposition Tempera	ture: No data.					
	Autoignition Pt:	363.00 C					
	Coefficient:						
	Octanol/Water Partition	No data.					
	Solubility in Water:	No data.					



Multi-region format

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			Section 12. Ecolo	gical Informat	ion		
12.1 Toxicity: Avoid release into the environment.							
	-		Runoff from fire control or dilution water may cause pollution.				
12.2 Persistence and		nce and	No data available.				
	Degrada	bility:					
12.3	Bioaccu	mulative	No data available.				
	Potentia	l:					
12.4	Mobility	in Soil:	No data available.				
12.5	Results	of PBT and vPvB	No data available.				
	assessm	ent:					
12.6	Other ad	verse effects:	No data available.				
			Section 13. Dispos	al Considerat	ions		
13.1	Waste D	isposal Method:	Dispose in accordance with loca	l, state, and federal r	egulations.		
			Section 14. Trans	sport Informat	ion		
14.1	LAND T	RANSPORT (US I	DOT):				
D	OT Prope	r Shipping Name:	Ethyl Alcohol Solution				
D	OT Hazaro	d Class:	3 FLAMMABL	E LIQUID			
U	N/NA Num	nber:	1170	Packing Group:		II	
14.1		RANSPORT (Euro	3 opean ADR/RID):				
A	DR/RID SI	nipping Name:	Ethyl Alcohol Solution				
υ	N Number	:	1170	Packing Group: II		Ш	
н	azard Clas	ss:	3 - FLAMMABLE LIQUID				
14.3		NSPORT (ICAO/I	ATA):				
IC	ICAO/IATA Shipping Name:		Ethyl Alcohol Solution				
U U	UN Number:		1170	Packing Group:		II	
н	azard Clas	SS:	3 - FLAMMABLE LIQUID	D IATA Classification: 3		3	
Additional Transport Information:		isport	Transport in accordance with loc When sold in quantities of less t E1, E2, E4, or E5, this item mee Therefore packaging does not h	han or equal to 1 mL its the De Minimis Qu	, or 1 g, with an Exce uantities exemption, p	ber IATA 2.6.10.	
			Section 15. Regul	atory Informa	tion		
EPA	SARA (Su	perfund Amendm	ents and Reauthorization Act o	of 1986) Lists			
CAS	#	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
CAS	#	Hazardous Com	ponents (Chemical Name)	Other US EPA or S	State Lists		



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CHIMICAL	Supersedes Revision: 03/26/2015			
Regulatory Information	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)			
Statement:	No.1272/2008.			
	Section 16. Other Information			
Revision Date:	03/16/2018			
Additional Information About This Product:	No data available.			
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.			