

KQ6300000

01-2119457610-43

# **SAFETY DATA SHEET** Arachidonic Acid methyl ester

Revision: 07/29/2019 Supersedes Revision: 09/19/2012

		according to Regulation (EC) No. 1907/2006 as	amended by (EC) No. 2015/	830 and US OSHA HCS	2015			
1.1	Section 1. Identification of the Substance/Mixture and of the Company/Undertaking   Product Code: 90014   Product Names Association of the leader							
	Product Name: Synonyms:	Arachidonic Acid methy 5Z,8Z,11Z,14Z-eicosate		l ester: Methyl Ara	achidonate:			
				-				
.2		ises of the substance or mixture		-				
	Relevant identified	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	lot for numan or vete	rinary use.				
1.3		er of the Safety Data Sheet:						
	Company Name:	Cayman Chemical Com 1180 E. Ellsworth Rd.	pany					
		Ann Arbor, MI 48108						
	Web site address:	www.caymanchem.com						
	Information:	Cayman Chemical Com	pany	+1 (73-	4)971-3335			
.4	Emergency telephor	ne number:						
	Emergency Contac	ct: CHEMTREC Within US	A and Canada:	+1 (80	0)424-9300			
		CHEMTREC Outside U	SA and Canada:	+1 (70	3)527-3887			
		Section 2. Ha	zards Identifi	cation				
2.1	Classification of the	Substance or Mixture:						
	Flammable Liquid							
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.							
	P210. Reep away norm {hearsparks/open names/not 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 Sec	se refer to Section 7 for Storage and Section 13 for Disposal information.						
2.3	Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract.							
	Effects and Sympto		-	-				
		May cause eye, skin, or res						
		To the best of our knowledg	e, the toxicological p	roperties have not	t been thoroughly investigated.			
		Section 3. Composition	n/Information	on Ingredie	nts			
CAS RTE		Components (Chemical Name)/ gistration No.	Concentration	EC No./ EC Index No.	GHS Classification			
256 NA		cid methyl ester	10.0 %	219-900-1 NA	No data available.			
64	I-17-5 Ethyl alcohol		90.0 %	200-578-6	Flam. Liq. 2: H225			
1000		10.10	1	1	1			

Multi-region format

603-002-00-5



Revision: 07/29/2019 Supersedes Revision: 09/19/2012

Description of First Aid Measures: In Case of Inhalation: In Case of Skin Contact:	Section 4. First Aid Measures Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention. Immediately wash skin with soap and plenty of water for at least 20 minutes. Remove contaminate						
Measures: In Case of Inhalation:	Get immediate medical attention.						
In Case of Inhalation:	Get immediate medical attention.						
	Get immediate medical attention.						
In Case of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 20 minutes. Remove contaminate						
	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 20 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.						
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						
Suitable Extinguishing Media:	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers.						
Unsuitable Extinguishing Media:	A solid water stream may be inefficient.						
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						
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						
	Avoid breathing vapors and provide adequate ventilation. <b>d</b> As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).						
•							
Precautions:	Take steps to avoid release into the environment, if safe to do so.						
	r Contain spill and collect, as appropriate. ngTransfer to a chemical waste container for disposal in accordance with local regulations.						
	Important Symptoms and Effects, Both Acute and Delayed: Suitable Extinguishing Media: Unsuitable Extinguishing Media: Flammable Properties an Hazards: Flash Pt: Explosive Limits: Autoignition Pt: Fire Fighting Instructions Fire Fighting Instructions Protective Precautions, Protective Equipment and Emergency Procedures: Environmental Precautions:						

Multi-region format



Page: 3 of 6

Revision: 07/29/2019 Supersedes Revision: 09/19/2012

Lay			Supersedes	s Revision: 09/19/2012				
		Section 7. Ha	ndling and Storage					
7.1	Precautions To Be Taken	Avoid breathing dust/fume/g	jas/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.							
	Other Dressutions		ormation listed on the product insert.					
	Other Precautions:	Hygroscopic						
	Secti	on 8. Exposure C	ontrols/Personal Protection					
8.1	Exposure Parameters:	1						
CAS	# Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations				
64-17	-5 Ethyl alcohol	ACGIH TLV	TLV: 1000 ppm					
		France VL	TWA: 1900 mg/m3 (1000 ppm)					
		OSHA PELs	STEL: 9500 mg/m3 (5000 ppm) PEL: 1000 ppm					
		Britain EH40	TWA: 1920 mg/m3 (1000 ppm)					
		Billain Einio	STEL: ()					
8.2	Exposure Controls:	·	· · ·					
8.2.1	Engineering Controls	Use process enclosures, loo	cal exhaust ventilation, or other engineering cont	rols to control airborne				
	(Ventilation etc.):	levels below recommended	exposure limits.					
8.2.2	Personal protection equipment:							
	Eye Protection: Safety glasses							
	Protective Gloves: Compatible chemical-resistant gloves							
	Other Protective Clothing:Lab coat							
	Respiratory Equipment (Specify Type):	NIOSH approved respirator	, as conditions warrant.					
	Work/Hygienic/Maintenan Do not take internally.							
		Wash thoroughly after handling.						
	No data available.							
	Se	ection 9. Physical	and Chemical Properties					
9.1	Information on Basic Phys	ical and Chemical Propert	ies					
	Physical States:	[]Gas [X]Liq	uid [] Solid					
	Appearance and Odor:	A solution in ethano						
	pH:	No data.						
	Melting Point:	No data.						
	Boiling Point:	No data.						
	Flash Pt:		sed: Closed Cup					
	Evaporation Rate:	No data.						
	Flammability (solid, gas):	No data available.						
	Explosive Limits:		25.0 C UEL: 19.0% at 25.0 C					
	Vapor Pressure (vs. Air or	mm 43 MM_HG at 20	J.U C					
	Hg):	. No data						
	Vapor Density (vs. Air = 1)	: No data.						

Multi-region format



Page: 4 of 6

	Specifi	c Gravity (Water	- 1).	o data.				
	-	ity in Water:	•	o data.				
		I/Water Partition		o data.				
			IN	o data.				
	Coeffic							
	-	nition Pt:		53.00 C				
		position Tempera	ature: N	o data.				
	Viscosi	ty:	N	o data.				
9.2	Other In	formation						
	Percen	t Volatile:	Ν	o data.				
	Molecu	lar Formula & We	<b>∍ight:</b> C	21H34O2 318.5				
			See	ction 10. Stability an	nd Reactiv	vity		
10.1	Reactiv	'ity:	No data a	vailable.				
10.2	Stabilit	y:	Unstable	[ ] Stable [ X ]				
10.3	Stabilit	y Note(s):	Stable if a	stored in accordance with infor	mation listed of	on the product	insert.	
	Polyme	rization:	Will occu	r[] Will not occur[X]				
10.4	Conditi	ons To Avoid:	heat, flan	nes, and sparks				
10.5	Incomp	atibility - Materia	u <b>ls</b> alkali me	als				
	To Avo	id:	ammonia					
			peroxides	5				
			strong ox	idizing agents				
10.6	Hazard	ous	carbon di	oxide				
	Decom	position or	carbon m	onoxide				
	Byprod	ucts:						
			Sect	ion 11. Toxicologica	al Informa	ation		
11.1	Informa	ation on	The toxic	ological effects of this product	have not beer	n thoroughly s	tudied.	
	Toxicol	ogical Effects:		nol - Toxicity Data: Oral TDLO (man): 1.14 ml/kg; Oral TDLO (man): 650 mg/kg; Oral LD50				
		U	(rat): 7,060 mg/kg; Oral LD50 (mouse): 3,450 mg/kg; Oral LD50 (mouse): 10.5 ml/kg; Oral LD50 (rabbit): 6,300 mg/kg; Inhalation LC50 (rat): 20,000 ppm (10h); Inhalation TCLO (human): 1,800					
			ppm (30n	0m); Inhalation TCLO (human): 2,500 mg/m3 (20m); Inhalation LC50 (rat): 5,900 mg/m3				
			(6h); Inha	ı); Inhalation LCLO (mouse): 29,300 ppm (7h);				
			Ethanol -	anol - Irritation Data: Eyes (rabbit): 500 mg (24h) mild; Skin (rabbit): 20 mg (24h) moderate;				
	Chronie	c Toxicological	Ethanol -	Investigated as a drug, mutage	en, natural pro	oduct, primary	irritant, reprod	uctive effector,
	Effects	:	and tumorigen.					
			Only sele	ct Registry of Toxic Effects of	Chemical Sub	stances (RTE	CS) data is pre	esented here.
			See actua	al entry in RTECS for complete	e information.			
			Ethanol F	RTECS Number: KQ6300000				
Carciı	nogenici	ty:	NTP? No	IARC Monographs? No	OSHA Re	egulated? No		
CAS	#	Hazardous Cor	nponents (	Chemical Name)	NTP	IARC	ACGIH	OSHA
256	6-89-4	Arachidonic Aci	d methyl est	er	n.a.	n.a.	n.a.	n.a.
64	-17-5	Ethyl alcohol			n.a.	1	A4	n.a.
		+				ł	-	

Multi-region format



Revision: 07/29/2019 Supersedes Revision: 09/19/2012

CHEMICAL				Supe	ersedes Revision: 09/19/2012			
		Section 12. Ecolo	gical Informat	ion				
2.1 Toxicity	/:	Avoid release into the environm	ent.					
		Runoff from fire control or dilution	on water may cause p	ollution.				
2.2 Persiste	ence and	No data available.	o data available.					
Degrada	ability:							
	umulative	No data available.	data available.					
Potentia								
•	in Soil:	No data available.						
		No data available.	ailable.					
assessi		NI 17 911						
12.6 Other a	dverse effects:	No data available.						
		Section 13. Dispos						
3.1 Waste I	Disposal Method:	Dispose in accordance with loca		-				
		Section 14. Tran	sport Informat	ion				
	RANSPORT (US I							
-	er Shipping Name:	-						
DOT Hazaı		3 FLAMMAB						
UN/NA Nu	ilber.	UN1170	Packing Grou	ıp.	II			
	RANSPORT (Euro	· ·						
ADR/RID S	hipping Name:	Ethyl Alcohol Solution						
UN Number:		1170	Packing Group:					
		3 - FLAMMABLE LIQUID	ADR Classification: 3		3			
	ANSPORT (ICAO/I	•						
	Shipping Name:	Ethyl Alcohol Solution 1170	Packing Grou	<b>ID</b> :	П			
Hazard Cla		3 - FLAMMABLE LIQUID	IATA Classification:		3			
Additional Tra		Transport in accordance with lo			U U			
Information:		•		•	Excepted Quantity Code of			
		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.						
		Therefore packaging does not h	have to be labeled as	Dangerous Good	ls/Excepted Quantity.			
		Section 15. Regul	atory Informa	tion				
EPA SARA (Si	uperfund Amendm	ents and Reauthorization Act of	of 1986) Lists					
CAS #		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)			
2566-89-4	Arachidonic Acid	methyl ester	No	No	No			
64-17-5	Ethyl alcohol		No	No	No			
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or S	State Lists				
2566-89-4	Arachidonic Acid	methyl ester	CAA HAP,ODC: N PROP.65: No	o; CWA NPDES:	No; TSCA: No; CA			
64-17-5 Ethyl alcohol			CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes -					
	I		ı		Multi vasian fam			
					Multi-region forr			



Page: 6 of 6

Revision: 07/29/2019 Supersedes Revision: 09/19/2012

Inventory; CA PROP.65: No **Regulatory Information** This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008. Statement: Section 16. Other Information 07/29/2019 Revision Date: 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.