

Revision: 06/10/2017

	CHEMICAL	ester	
	acc	cording to Regulation (EC) No. 1907/2006 as amended by (E	EC) No. 1272/2008
	Section 1.	Identification of the Substance/Mixture and of the	e Company/Undertaking
.1	Product Code:	21124	
	Product Name:	all-cis-4,7,10,13,16-Docosapentaenoic Acid me	thyl ester
	Synonyms:	4Z,7Z,10Z,13Z,16Z-docosapentaenoic acid, me	ethyl ester; all-cis-4,7,10,13,16-DPA methyl es
		DPA methyl ester; Osbond Acid methyl ester;	
.2	Relevant identified uses of	of the substance or mixture and uses advised aga	inst:
	Relevant identified uses	For research use only, not for human or veterin	ary 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	4 (704)074 0005
	Information:	Cayman Chemical Company	+1 (734)971-3335
1.4	Emergency telephone nu		((000) (0 (0000)
	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
2.1	Classification of the Subs	stance or Mixture:	
	Flammable Liquids, Cat	agany 2	
2.2	Label Elements:	egory z	
	GHS Signal Word:	Danger	
	GHS Hazard Phrases:		
	H225: Highly flammable I	iquid and vapor.	
	GHS Precaution Phrase	s:	
		eat/sparks/open flames/hot surfaces} No smoking.	
	P280: Wear {protective g	loves/protective clothing/eye protection/face protectio	pn}.
	GHS Response Phrases		
	P303+361+353: IF ON S water/shower.	KIN (or hair): Remove/take off immediately all contan	ninated clothing. Rinse skin with
	GHS Storage and Dispo	sal Phrases:	
	Please refer to Section 7	for Storage and Section 13 for Disposal information.	
2.3	Adverse Human Health	Material may be irritating to the mucous membrane	s and upper respiratory tract.
	Effects and Symptoms:	May be harmful by inhalation, ingestion, or skin abs	-
		May cause eye, skin, or respiratory system irritation	
		To the best of our knowledge, the toxicological prop	perties have not been thoroughly investigated.

Multi-region format



SAFETY DATA SHEET all-cis-4,7,10,13,16-Docosapentaenoic Acid methyl

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ester Section 3. Composition/Information on Ingredients CAS#/ Hazardous Components (Chemical Name)/ Concentration EC No./ **GHS Classification RTECS # REACH Registration No.** EC Index No. all-cis-4,7,10,13,16-Docosapentaenoic Acid methyl 31930-67-3 1.0 % NA No data available. NA ester NA 64-17-5 Ethyl alcohol 99.0 % 200-578-6 Flam. Liq. 2: H225 KQ6300000 603-002-00-5 Section 4. First Aid Measures 4.1 **Description of First Aid** Measures: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. In Case of Inhalation: 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. Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined In Case of Eye Contact: and tested by medical personnel. Wash out mouth with water provided person is conscious. Never give anything by mouth to an In Case of Ingestion: unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel. 4.2 Important Symptoms and May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. Effects, Both Acute and **Delayed:** Section 5. Fire Fighting Measures 5.1 Suitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers. Media: Unsuitable Extinguishing A solid water stream may be inefficient. Media: 5.2 Flammable Properties andCan 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.

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		Section 6. Accid	ental Release Measures	
6.1	Protective Precautions,	Avoid breathing vapors a	and provide adequate ventilation.	
	Protective Equipment and	d As conditions warrant, we	ear a NIOSH approved self-contained breathing a	pparatus, or respirator
	Emergency Procedures:	and appropriate personal	I protection (rubber boots, safety goggles, and he	avy rubber gloves).
6.2	Environmental	Take steps to avoid relea	ase into the environment, if safe to do so.	
	Precautions:			
6.3	Methods and Material For	r Contain spill and collect,	as appropriate.	
	Containment and Cleanin	gTransfer to a chemical wa	aste container for disposal in accordance with loc	al regulations.
	Up:			
		Section 7. H	landling and Storage	
7.1	Precautions To Be Taken		· · ·	
	in Handling:	Avoid prolonged or repeat		
	5	Keep away from sources	of ignition.	
		Take precautionary meas	ures against static discharge.	
7.2	Precautions To Be Taken	Keep away from heat, spa	arks, and flame.	
	in Storing:	Keep container tightly close		
		Store in accordance with	information listed on the product insert.	
	Other Precautions:	Hygroscopic.		
	Sect	tion 8. Exposure	Controls/Personal Protection	
8.1	Exposure Parameters:			
CAS	# Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations
64-17	7-5 Ethyl alcohol	ACGIH TLV	TLV: 1000 ppm	
		France VL	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm)	
		OSHA PELs	PEL: 1000 ppm	
		Britain EH40	TWA: 1920 mg/m3 (1000 ppm) STEL: ()	
8.2	Exposure Controls:	ł	I	I
8.2.1	Engineering Controls	Use process enclosures,	local exhaust ventilation, or other engineering cor	ntrols to control airborne
	(Ventilation etc.):	levels below recommende	ed exposure limits.	
8.2.2	Personal protection equi	pment:		
	Eye Protection:	Safety glasses		
	Protective Gloves:	Compatible chemical-resi	stant gloves	
	Other Protective Clothing	j: Lab coat		
	Respiratory Equipment	NIOSH approved respirate	or, as conditions warrant.	
	(Specify Type):			
	Work/Hygienic/Maintenar	Do not take internally.		
	ce Practices:	Facilities storing or utilizin	ng this material should be equipped with an eyewa	ash and a safety showe
		Wash thoroughly after ha	ndling.	
		No data available.		



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	CHEMICAL	ester
		Section 9. Physical and Chemical Properties
9.1	Information on Basic Ph	nysical 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	s): No data available.
	Explosive Limits:	LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C
	Vapor Pressure (vs. Air	r or mm 43 MM_HG at 20.0 C
	Hg):	
	Vapor Density (vs. Air =	= 1): No data.
	Specific Gravity (Water	r = 1): No data.
	Solubility in Water:	No data.
	Octanol/Water Partition	No data.
	Coefficient:	
	Autoignition Pt:	363.00 C
	Decomposition Temper	rature: No data.
	Viscosity:	No data.
9.2	Other Information	
	Percent Volatile:	No data.
	Molecular Formula & W	/eight: C23H36O2 344.5
		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]
0.4	Conditions To Avoid:	heat, flames and sparks
10.5	Incompatibility - Materia	als alkali metals
	To Avoid:	ammonia
		peroxides
		strong oxidizing agents
10.6	Hazardous	carbon dioxide
	Decomposition or	carbon monoxide
	Byproducts:	



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			Sectio	n 11. Toxicolog	ical I	nforma	tion		
11.1		ion on ogical Effects: Toxicological	The toxicolo Ethanol - To (rat): 7,060 r (rabbit): 6,30 ppm (30m); (6h); Inhalati Ethanol - Irri Ethanol - Inv Only select I	gical effects of this produ xicity Data: Oral TDLO (ng/kg; Oral LD50 (mous 00 mg/kg; Inhalation LC5 Inhalation TCLO (humar ion LCLO (mouse): 29,30 tation Data: Eyes (rabbit restigated as a mutagen Registry of Toxic Effects intry in RTECS for comp	uct hav man): ce): 3,4{ 50 (rat): 50 (rat): 2,500 00 ppm t): 500 n , reproc of Che	e not been 1.14 ml/kg; 50 mg/kg; C 20,000 pp 0 mg/m3 (2 n (7h); mg (24h) m ductive effe emical Subs	thoroughly s Oral TDLO (i Dral LD50 (m m (10h); Inha 20m); Inhalati ild; Skin (rab ctor, and tur	man): 650 mg/l ouse): 10.5 ml/ Ilation TCLO (h on LC50 (rat): bit): 20 mg (24 Iorigen.	kg; Oral LD50 human): 1,800 5,900 mg/m3 h) moderate;
Carci	nogenicity	/:	Ethanol RTE NTP? No	CS Number: KQ630000 IARC Monographs? N		OSHA Red	gulated? No		
CAS		Hazardous Com				NTP		ACGIH	OSHA
319	30-67-3	all-cis-4,7,10,13,	16-Docosaper	ntaenoic Acid methyl est	er	n.a.	n.a.	n.a.	n.a.
64	-17-5	Ethyl alcohol	· ·			n.a.	1	A4	n.a.
			Ceat			formo o ti		!	
				on 12. Ecologic	ai III	iomali			
12.1	Toxicity	:	Avoid releas	e into the environment.					
			Runoff from	fire control or dilution wa	ater ma	y cause po	llution.		
2.2	Persiste	nce and	No data ava	ilable.					
	Degrada	bility:							
2.3	Bioaccu	mulative	No data ava	ilable.					
-	Potentia	1:							
12.4	Mobility		No data ava	ilabla					
	-								
12.5		of PBT and vPvB	No data ava	llable.					
	assessn	nent:							
12.6	Other ac	lverse effects:	No data ava	ilable.					
			Sectio	n 13. Disposal	Cons	sideratio	ons		
13.1	Waste D	isposal Method:	Dispose in a	ccordance with local, sta	ate, and	d federal re	gulations.		
			Sect	tion 14. Transpo	ort In	formati	on		
14.1	LAND T	RANSPORT (US	DOT):						
C	OT Prope	r Shipping Name	: Ethyl Ale	cohol Solution					
C	OT Hazar	d Class:	3	FLAMMABLE L	IQUID				
ι	N/NA Nun	nber:	1170		Pac	king Group):	II	
ι			Ethyl Ale 1170		Pacl	king Group):	II	
	azai u Gia	33.	3 - FLAI						



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ICAO/IATA Shipping Name:	Ethyl Alcohol Solution		
UN Number:	1170	Packing Group:	II
Hazard Class:	3 - FLAMMABLE LIQUID	IATA Classification:	3
Additional Transport	Transport in accordance with loca	l, state, and federal regulations.	
Information:	When sold in quantities of less that	n 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	tion, per IATA 2.6.10.
	Therefore packaging does not have	e to be labeled as Dangerous Go	ods/Excepted Quantity.

Section 15. Regulatory Information

CAS #	-	nents and Reauthorization Act	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
31930-67-3		16-Docosapentaenoic Acid	No	No	No		
31930-07-3	methyl ester						
64-17-5	Ethyl alcohol		No	No	No		
-		nponents (Chemical Name)	Other US EPA or State Lists				
31930-67-3	all-cis-4,7,10,13, methyl ester	16-Docosapentaenoic Acid	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
64-17-5	Ethyl alcohol		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No				
Regulatory Inf	ormation	This SDS was prepared in acco	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)				
Statement:		No.1272/2008.					
		Section 16. Ot	her Informatio	on			
Revision Date	:	06/10/2017					
Additional Info	ormation About	No data available.					
This Product:							
Company Policy or Disclaimer:							
Company Poli	cy or Disclaimer:	DISCLAIMER: This information currently available to us. Howe		•			
Company Poli	cy or Disclaimer:		ver, we make no wa t to such informatior	rranty of merchanta , and we assume n	bility or any other warrant o liability resulting from its		
Company Poli	cy or Disclaimer:	currently available to us. Howe express or implied, with respec use. Users should make their o	ver, we make no wa t to such informatior	rranty of merchanta , and we assume n	bility or any other warrant		
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Company Poli	cy or Disclaimer:	currently available to us. Howe express or implied, with respec use. Users should make their o	ver, we make no wa t to such informatior	rranty of merchanta , and we assume n	bility or any other warrant o liability resulting from its		

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