

	Revision:	08/07/2017
Supersedes	Revision:	05/10/2017

	acc	cording 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	Product Code:						
	Product Code. Product Name:	9090310 Docosahexaenoic Acid ethyl ester					
	Synonyms:	4Z,7Z,10Z,13Z,16Z,19Z-docosahexaenoic acid	ethyl ester: Cenyonic Acid ethyl ester: DHA				
	Synonyms.	ethyl ester;					
1.2	Relevant identified uses of	of the substance or mixture and uses advised aga	ainst:				
	Relevant identified uses	For research use only, not for human or vetering	hary 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 nur	mber:					
	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	egory 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 glo authority.	oves/clothing and eye/face protection as specified by	the manufacturer/supplier or the competent				
	GHS Response Phrases						
	-	• KIN (or hair): Remove/take off immediately all contar	ninated clothing. Rinse skin with				
	water/shower.						
	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	es and upper respiratory tract.				
	Effects and Symptoms:	ptoms: May be harmful by inhalation, ingestion, or skin absorption.					
		May cause eye, skin, or respiratory system irritation	n.				
		To the best of our knowledge, the toxicological pro	perties have not been thoroughly investigate				
2.3							



Multi-region format

		Sect	tion 3. Composition	/Information	on Ingredie	nts
CAS RTE		Hazardous Com REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification
8192 NA	26-94-5	Docosahexaenoic A	cid ethyl ester	50.0 %	NA NA	No data available.
	-17-5 00000	Ethyl alcohol		50.0 %	200-578-6 603-002-00-5	Flam. Liq. 2: H225
			Section 4. Fi	rst Aid Meas	ures	
4.1	Measu		Descus la facele dia 16 anti-	- de la compañía - additional	1	
		e of Inhalation:	Get immediate medical attent	tion.		e oxygen by trained personnel.
	In Case	e of Skin Contact:	Immediately wash skin with s clothing. Get medical attentio) minutes. Remove contaminate efore reuse.
	In Case	e of Eye Contact:	Hold eyelids apart and flush e and tested by medical persor		vater for at least 2	0 minutes. Have eyes examined
	In Case	e of Ingestion:	Wash out mouth with water p unconscious person. Get me medical personnel.	•	e e	ve anything by mouth to an ng unless directed to do so by
4.2	-	s, Both Acute and	d May cause anemia, cough, C (weakness, exhaustion), liver	-		-
			Section 5. Fire	Fighting Me	asures	
5.1	Suitab	le Extinguishing	Use alcohol-resistant foam, o	carbon dioxide, wate	er, or dry chemical	spray.
	Media:		Use water spray to cool fire-e	exposed containers.		
	Unsuit Media:		A solid water stream may be	inefficient.		
5.2	Flamm	able Properties an	dCan release vapors that form	n explosive mixtures	at temperatures a	at or above the flashpoint.
	Hazard	ls:	Container explosion may occ		ons.	
			Emits toxic fumes under fire			
			Sensitive to static discharge. Vapors can travel to a source		h hack	
			No data available.	e of ignition and has	ii back.	
	Flash I	D+-	14.00 C Method Used: Cl	osed Cup		
		sive Limits:	LEL: 3.3% at 25.0 C		at 25.0 C	
	-	nition Pt:	363.00 C			
5.3	-		s: As in any fire, wear self-conta equivalent), and full protectiv Note: Flammable as diluted i	e gear to prevent co	-	
						Multi-ragion for



Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirat Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves). 3.2 Environmental Take steps to avoid release into the environment, if safe to do so. Proceautions: 3.3 Methods and Material For Contain spill and collect, as appropriate. Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations. Up: Section 7. Handling and Storage 7.1 Precautions To Be Taken Avoid breathing dus/fume/gas/inist/vapours/spray. in Handling: Avoid protoinged 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 Section 8. Exposure Controls/Personal Protection 3.1 Exposure Parameters: CAS # Chemical Name Jurisdiction Recommended Exposure Limits Notations 64-17-5 Ethyl alcohol Jurisdiction Recommended Exposure Limits Notations 64-17-5 Ethyl alcohol Jurisdiction Recommended Exposure Limits Notations 64-17-5 Ethyl alcohol Use process enclosures, local exhaust ventilation, or other engineering controls to control airb (Ventilation etc.): levels below recommended exposure limits. 8.2.2 Personal protection equipment: Eye Protection: Safety glasses Protective Glotves: Compatible chemical-resistant gloves Other Protective Clothing:Lab coat Respiratory Equipment NIOSH approved respirator, as conditions warrant. (Specify Type): Work/Hygleinc/Maintenan Do not take internally.		CHEMICAL			Supe	ersedes Revision: 05/10/2017		
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Britain EH40 TWA: 1920 mg/m3 (1000 ppm) STEL: () 8.2 Exposure Controls: 8.2.1 Engineering Controls (Ventilation etc.): Use process enclosures, local exhaust ventilation, or other engineering controls to control airb 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 NIOSH approved respirator, as conditions warrant. (Specify Type): Work/Hygienic/Maintenan Do not take internally. ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash and a safety should be the original should be equipped with an eyewash and a safety should be the original should be equipped with an eyewash and a safety should be equipped with an eyewash and a safety should be the original should be equipped with an eyewash and a safety should be equipped with an eyewash and a safety should be equipped with an eyewash and a safety should be equipped with an eyewash and a safety should be equipped with an eyewash and a safety should be equipped with an eyewash and a safety should be equipped with an eyewash and a safety should be equipped with an eyewash and a safety should be equipped with an eyewash and a safety should be equipped with an eyewash and a safety should be equipped with an eyewash and a safety should be equipped with an eyewash and a safety should be equipped with an eyewash and a safety should be equipped with an eyewash and a safety should be equipped with an eyewash and a safety should be equipped with an eyewas			France	VL				
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8.2.1 Engineering Controls (Ventilation etc.): Use process enclosures, local exhaust ventilation, or other engineering controls to control airbit 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 Ce Practices: Do not take internally. Facilities storing or utilizing this material should be equipped with an eyewash and a safety show Wash thoroughly after handling.			Britain E	H40				
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Eye Protection:Safety glassesProtective Gloves:Compatible chemical-resistant glovesOther Protective Clothing:Lab coatRespiratory EquipmentNIOSH approved respirator, as conditions warrant.(Specify Type):Work/Hygienic/MaintenanDo not take internally.ce Practices:Facilities storing or utilizing this material should be equipped with an eyewash and a safety sho Wash thoroughly after handling.		(Ventilation etc.):	levels below red	commended exp	osure limits.			
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: Facilities storing or utilizing this material should be equipped with an eyewash and a safety show wash thoroughly after handling.	8.2.2	Personal protection equi	pment:					
Other Protective Clothing: Lab coat Respiratory Equipment NIOSH approved respirator, as conditions warrant. (Specify Type): Work/Hygienic/Maintenan Do not take internally. ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash and a safety show Wash thoroughly after handling.		Eye Protection:	Safety glasses					
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Work/Hygienic/MaintenanDo not take internally.ce Practices:Facilities storing or utilizing this material should be equipped with an eyewash and a safety shoWash thoroughly after handling.			NIOSH approve	ed respirator, as	conditions warrant.			
ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash and a safety sho Wash thoroughly after handling.) Do not take inte	vrnally				
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Percent Volatile: No data. Molecular Formula & Weight: C24H36O2 356.5 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] 10.4 Conditions To Avoid: heat, flames and sparks 10.5 Incompatibility - Materials alkali metals ammonia peroxides strong oxidizing agents 10.6 Hazardous carbon dioxide Decomposition or carbon monoxide	Information on Basic Physical and Chemical Properties Physical States: [] Gas [X] Liquid [] Solid Appearance and Odor: A solution in ethanol ph: No data. Boiling Point: No data. Boiling Point: No data. Flash Pt: I 4.00 C Method Used: Closed Cup Evaporation Rate: No data. Flasmability (solid, gas): No data available. Explosive Limits: LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C Vapor Pressure (vs. Air or mm 43 MM_HG at 20.0 C Hg): Vapor Density (vs. Air = 1): No data. Specific Gravity (Water = 1): No data. Solubility in Water: No data. Coefficient: Autoignition Pt: 363.00 C Decomposition Temperature: No data. Viscosity: No data. Other Information Percent Volatile: No data available. Stability Note(s): Stabile [] Stabie [X] Stability: C24H3602 Stability: C24H360 Stability: C24H360 Stability: C24H360	ayna		Supersedes Revision: 05/10/2017
Physical States: []Gas [X]Liquid []Solid Appearance and Odor: A solution in ethanol pH: No data. Metting Point: No data. Boiling Point: No data. Flash Pt: 14.00 C Method Used: Closed Cup Explosite Limits: LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C Vapor Pressure (vs. Air or mm 43 MM_HG at 20.0 C Hgi: Vapor Density (vs. Air = 1): No data. Solubility in Water: No data. Solubility in Water: No data. Octanol/Water Partition No data. Coefficient: 363.00 C Decomposition Pt: 363.00 C Decomposition Temperature: No data. Viscosity: No data. Viscosity: No data. Molecular Formula & Weight: C24H3602 25.5 Stability Note(s): Stability Note(s): Stabile if stored in accordance with information listed on the product insert. Polymerization: Will occur[] Will occur[] 0.4 Reactivity: Stability Intot occur[X] 0.4 Conditions To Avoid: heat, fla	Physical States: []Gas [X]Liquid []Solid Appearance and Odor: A solution in ethanol pH: No data. Metting Point: No data. Boiling Point: No data. Flash Pt: 14.00 C Explosition Rate: No data. Flash Pt: 14.00 C Explosition Rate: No data. Flammability (solid, gas): No data available. Explositive Limits: LEL: 3.3% at 25.0 C Upon Pressure (vs. Air or mm 43 MM_HG at 20.0 C Hgj: Vapor Density (vs. Air = 1): Vapor Density (vs. Air = 1): No data. Solubility in Water: No data. Costinol/Water Partition No data. Costinol/Water Partition No data. Otter Information No data. Percent Volatile: No data. Viscosity: No data. Otter Information Exel Percent Volatile: No data. Molecular Formula & Weight: C24H3602 365.5 1 Reactivity: No data available. 2 Stability Note(s):		Se	ection 9. Physical and Chemical Properties
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Hg): Vapor Density (vs. Air = 1): No data. Specific Gravity (Water = 1): No data. Solubility in Water: No data. Octanol/Water Partition No data. Coefficient: 363.00 C Autoignition Pt: 363.00 C Decomposition Temperature: No data. Viscosity: No data. Viscosity: No data. Percent Volatile: No data. Molecular Formula & Weight: C24H36O2 356.5 Stability: Unstable. 10.1 Reactivity: No data available. 10.2 Stability: Unstable. 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 10.5 Incompatibility - Materials alkaii metals strong oxidizing agents 10.6 Hazardous carbon dioxide peroxides strong oxidizing agents strong oxidizing agents	Hg): Vapor Density (vs. Air = 1): No data. Specific Gravity (Water = 1): No data. Solubility in Water: No data. Octanol/Water Partition No data. Coefficient: 363.00 C Decomposition Pt: 363.00 C Decomposition Temperature: No data. Viscosity: No data. Viscosity: No data. Other Information No data. Percent Volatile: No data. Molecular Formula & Weight: C24H36O2 356.5 1 Reactivity: No data available. 2 Stability Note(s): Stable [] Stable [X] 3 Stability: Unstable [] Stable [X] 3 Stability Note(s): Stable [J] Will not occur [X] 4 Conditions To Avoid: heat, flames and sparks S 5 Incompatibility - Materials alkali metals armonia perxides strong oxidizing agents strong oxidizing agents 6 Hazardous carbon dioxide carbon monoxide carbon monoxide	Expl	losive Limits:	LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C
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10.6 Hazardous carbon dioxide Decomposition or carbon monoxide	 6 Hazardous carbon dioxide Decomposition or carbon monoxide 	To A	void:	
10.6 Hazardous carbon dioxide Decomposition or carbon monoxide	6 Hazardous carbon dioxide Decomposition or carbon monoxide			
Decomposition or carbon monoxide	Decomposition or carbon monoxide			
	Byproducts:		-	Carbon monoxide
Byproducts:		Вур	roducts:	



					S	•	
			Section 11. Toxicologic	cal Informa	ition		
11.1		gical Effects: Foxicological	The toxicological effects of this produce Ethanol - Toxicity Data: Oral TDLO (mouse) (rat): 7,060 mg/kg; Oral LD50 (mouse) (rabbit): 6,300 mg/kg; Inhalation LC50 ppm (30m); Inhalation TCLO (human) (6h); Inhalation LCLO (mouse): 29,300 Ethanol - Irritation Data: Eyes (rabbit): Ethanol - Investigated as a mutagen, for Only select Registry of Toxic Effects of See actual entry in RTECS for complete Ethanol RTECS Number: KQ6300000 NTP? No IARC Monographs? Not	nan): 1.14 ml/kg;): 3,450 mg/kg; ((rat): 20,000 pp : 2,500 mg/m3 (: 0 ppm (7h); 500 mg (24h) m reproductive effe of Chemical Substant ete information.	Oral TDLO (r Dral LD50 (mo m (10h); Inha 20m); Inhalati hild; Skin (rable ector, and tum	man): 650 mg/k buse): 10.5 ml/ lation TCLO (h on LC50 (rat): : bit): 20 mg (24 origen.	kg; Oral LD50 uman): 1,800 5,900 mg/m3 n) moderate;
			ponents (Chemical Name)			ACGIH	OSHA
8192		Docosahexaenoi			n.a.	n.a.	n.a.
		Ethyl alcohol	· · · , · · · ·	n.a.	1	A4	n.a.
		-	Section 12. Ecologica	l Informati	 on		
12.1	Toxicity:		Avoid release into the environment.		<u> </u>		
	. existry		Runoff from fire control or dilution wat	er may cause po	ollution.		
12.2	Persister	ice and	No data available.				
	Degradal	oility:					
12.3	Bioaccur	nulative	No data available.				
	Potential	:					
12.4	Mobility i	n Soil:	No data available.				
12.5	Results of PBT and vPvB No data available.						
	assessm						
12.6	Other adv	verse effects:	No data available.				
			Section 13. Disposal C				
13.1	Waste Di	sposal Method:	Dispose in accordance with local, stat	e, and federal re	gulations.		
			Section 14. Transpor	rt Informati	on		
14.1	LAND TF	RANSPORT (US I	•	rt Informati	on		
	OT Proper	Shipping Name:	DOT):	rt Informati	on		
D(D(OT Proper OT Hazard	Shipping Name: Class:	DOT): Ethyl Alcohol Solution 3 FLAMMABLE LIC	QUID			
D	OT Proper	Shipping Name: Class:	DOT): Ethyl Alcohol Solution			II	
D(UI	OT Proper OT Hazard N/NA Num	Shipping Name: Class: ber:	DOT): Ethyl Alcohol Solution 3 FLAMMABLE LIC 1170	QUID		II	
D(D(UI 14.1	OT Proper OT Hazard N/NA Num LAND TF	Shipping Name: Class: ber: RANSPORT (Euro	DOT): Ethyl Alcohol Solution 3 FLAMMABLE LIC 1170	QUID		II	
D(D(UI 14.1 AI	OT Proper OT Hazard N/NA Num LAND TF	Shipping Name: Class: ber: RANSPORT (Euro ipping Name:	DOT): Ethyl Alcohol Solution 3 FLAMMABLE LIC 1170	QUID	p:		



Revision: 08/07/2017 Supersedes Revision: 05/10/2017

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:	Ethyl Alcohol Solution				
UN Number:	1170	Packing Group:	II		
Hazard Class:	3 - FLAMMABLE LIQUID	IATA Classification:	3		
Additional Transport	ransport in accordance with local, state, and federal regulations.				
Information:	When sold in quantities of less that	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 2.0				
	Therefore packaging does not have	ve to be labeled as Dangerous Go	ods/Excepted Quantity.		

Section 15. Regulatory Information

81926-94-5 64-17-5		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
64-17-5	Docosahexaenoi	c Acid ethyl ester	No	No	No
	Ethyl alcohol		No	No	No
CAS # Hazardous Com		ponents (Chemical Name)	Other US EPA o	r State Lists	•
81926-94-5	81926-94-5 Docosahexaenoic Acid ethyl ester		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No		
64-17-5	Ethyl alcohol		CAA HAP,ODC: Inventory; CA P	No; CWA NPDES: ROP.65: No	No; TSCA: Yes -
Regulatory Info	ormation	This SDS was prepared in acc No.1272/2008.	ordance with 29 CFF	R 1910.1200 and R	egulation (EC)
		Section 16. Ot	her Informatio	on	
Revision Date:		08/07/2017			
Additional Info	rmation About	No data available.			
This Product:					
Company Polic	cy or Disclaimer:	DISCLAIMER: This information currently available to us. Howe express or implied, with respec- use. Users should make their their particular purposes.	ver, we make no wa t to such information	rranty of merchanta , and we assume r	bility or any other warranty o liability resulting from its