

Revision: 05/28/2016

	acc	cording to Regulation (EC) No. 1907/2006 as amended by ((EC) No. 1272/2008					
	Section 1.	Identification of the Substance/Mixture and of th	ne Company/Undertaking					
1.1	Product Code:	19412						
	Product Name:	Lipoxin LC-MS Mixture						
1.2	Relevant identified uses of	of the substance or mixture and uses advised ag	ainst:					
	Relevant identified uses	For research use only, not for human or vetering	nary 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 nu	mber:						
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887					
		Section 2. Hazards Identification						
2.1	Classification of the Subs	stance or Mixture:						
	Flammable Liquids, Cat	egory 2						
2.2	Label Elements:							
	GHS Signal Word: GHS Hazard Phrases:	Danger						
	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:							
	•	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:	May be harmful by inhalation, ingestion, or skin ab	sorption.					
		May cause eye, skin, or respiratory system irritatio	n.					
		To the best of our knowledge, the toxicological pro	perties have not been thoroughly investigated.					



aperts 346-5 S(S) 6(R)-Upoxin A4 < 0.001 % NA No Audata available. JX3379000 Skin Corr. 2: H315 Eye Damage 2A: H319 Strin Corr. 2: H315 JX3884000 S(S) 6(R), L(poxin B4 < 0.001 % NA Skin Corr. 2: H315 171030-11-8 S(S) 6(R), L(p), L(poxin A4 < 0.001 % NA No data available. NA Socies2-1 Arachidonic acid < 0.001 % NA No data available. NA NA Acute Tox.(D) 4: H302 Acute Tox.(D) 4: H302 Acute Tox.(D) 4: H302 Skin Corr. 2: H315 Eye Damage 2A: H319 Skin Corr. 2: H315 Eye Damage 2A: H319 64-17.5 Ethyl alcohol 99.996 % 200-578-6 Flam. Liq. 2: H225 Section 4. First Aid Measures Measures: In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personne Get immediate medical attention. In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. In Case of Inhalation: Re	CAS # / Hazardous Comp RTECS # REACH Registrat		-	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification
JX3884000 NA Eve Damage 2A: H319 STOT (SE) 3: H335 H336 1711030-11-8 \$(\$),6(R),15(R)-Lipoxin A4 < 0.001 %			5(S),6(R)-Lipoxin A4		< 0.001 %		No data available.
NA NA 506-32-1 CE6675000 Arachidonic acid < 0.001 %			Lipoxin B4		< 0.001 %		Eye Damage 2A: H319
CE6675000 NA Acute Tox.(D) 4: H312 Acute Tox.(D) 4: H312 Acute Tox.(D) 4: H312 Acute Tox.(D) 4: H312 Acute Tox.(D) 4: H322 Skin Corr. 2: H315 Eye Damage 2A: H319 STOT (SE) 3: H335 H336 64-17-5 Ethyl alcohol 99.996 % 200-578-6 603-002-00-5 Flam. Liq. 2: H225 Section 4. First Aid Measures In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personne Get immediate medical attention. In Case of Skin Contact: Immediate medical attention. In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Remove contaminal clothing. Get medical attention. 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. 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 May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude Effects, Both Acute and (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. Delayed: Section 5. Fire Fighting Measures 3.1 Suitable Extinguishing Media: Use alcohol-resistant form, carbon dixide, water, or dry chemical spray. <td></td> <td>80-11-8</td> <td>5(S),6(R),15(R)-Lipc</td> <td>ixin A4</td> <td>< 0.001 %</td> <td></td> <td>No data available.</td>		80-11-8	5(S),6(R),15(R)-Lipc	ixin A4	< 0.001 %		No data available.
KG8300000 603-002-00-5 Section 4. First Aid Measures All Description of First Aid Measures: In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personne Get immediate medical attention. In Case of Skin Contact: Immediately wash skin with scapa and plenty of water for at least 15 minutes. Remove contaminat 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 examine 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 May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude Effects, Both Acute and (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. Delayed: Section 5. Fire Fighting Measures Use water stream may be			Arachidonic acid		< 0.001 %		Acute Tox.(D) 4: H312 Acute Tox.(I) 4: H332 Skin Corr. 2: H315 Eye Damage 2A: H319
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Flash Pt: 14.00 C Method Used: Closed Cup	5.2	Flammable Properties andCan release vapors that for Hazards: Container explosion may or Emits toxic fumes under fire Sensitive to static discharge Vapors can travel to a sour			cur under fire condi conditions.	tions.	at or above the flashpoint.
		Flash I	Pt:		losed Cup		



	HEMICAL							
	Explosi	ve Limits:	LEL: 3.3% at	25.0 C UEL: 19.0%	at 25.0 C			
	Autoigr	nition Pt:	363.00 C					
5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOS						SH approved or		
	equivalent), and full protective gear to prevent contact with skin and eyes.							
			Note: Flammable as	diluted in ethanol.				
			Section 6. Ac	cidental Release Me	easures			
6.1	1 Protective Precautions, Avoid breathing vapors and provide adequate ventilation.							
	Protective Equipment and As condition:			warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,				
	Emerge	ency Procedures:	and appropriate pers	onal protection (rubber boots,	safety goggles, and heavy r	ubber gloves).		
6.2	2 Environmental Take steps to avoid release into the environment, if safe to do so.							
	Precautions:							
6.3	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 Stor	age			
7.1	7.1 Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray.							
	in Hand	lling:	Avoid prolonged or re	epeated exposure.				
	Keep away from so			ces of ignition.				
				ake precautionary measures against static discharge.				
7.2	Precaut	tions To Be Taken	n Keep away from heat, sparks, and flame.					
	in Stori	ng:	Keep container tightly closed.					
			Store in accordance with information listed on the product insert.					
	Other P	recautions:	Hygroscopic.					
		Sect	tion 8. Exposu	re Controls/Persona	al Protection			
8.1	Exposu	re Parameters:						
CAS	#	Partial Chemical	Name	Britain EH40	France VL	Europe		
8966	89663-86-5 5(S),6(R)-Lipoxin		A4	No data.	No data.	No data.		
9804	49-69-5	Lipoxin B4		No data.	No data.	No data.		
1710	30-11-8	5(S),6(R),15(R)-L	ipoxin A4	No data.	No data.	No data.		
506	6-32-1	Arachidonic acid		No data.	No data.	No data.		
64	64-17-5 Ethyl alcohol			TWA: 1920 mg/m3 (1000 ppm)	TWA: 1900 mg/m3 (1000	No data.		

		STEL: ()	ppm) STEL: 9500 mg/m3 (5000 ppm)	
CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
89663-86-5	5(S),6(R)-Lipoxin A4	No data.	No data.	No data.
98049-69-5	Lipoxin B4	No data.	No data.	No data.
171030-11-8	5(S),6(R),15(R)-Lipoxin A4	No data.	No data.	No data.
506-32-1	Arachidonic acid	No data.	No data.	No data.
64-17-5	Ethyl alcohol	PEL: 1000 ppm	TLV: 1000 ppm STEL: 1000 ppm	No data.



Multi-region format

Practices: S rmation on Basic Phy vsical States: bearance and Odor: ting Point: ling Point: sh Pt: poration Rate: mmability (solid, gas) blosive Limits: bor Pressure (vs. Air c : bor Density (vs. Air = 2000)	Safety glasses Compatible chemical-resistant gloves g:Lab coat NIOSH approved respirator, as conditions warrant. n Do not take internally. Facilities storing or utilizing this material should be equipped with an eyewash and a safety showe Wash thoroughly after handling. No data available. Section 9. Physical and Chemical Properties rsical and Chemical Properties []Gas [X] Liquid []Solid A solution in ethanol (100 ng/ml of each compound) No data. No data. 14.00 C Method Used: Closed Cup No data. : No data available. : No data available. LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C or mm 43 MM_HG at 20.0 C						
sonal protection equi Protection: tective Gloves: er Protective Clothing spiratory Equipment ecify Type): rk/Hygienic/Maintenar Practices: Software Practices: Software Softwa	ipment: Safety glasses Compatible chemical-resistant gloves g:Lab coat n: NIOSH approved respirator, as conditions warrant. n: Do not take internally. Facilities storing or utilizing this material should be equipped with an eyewash and a safety showe Wash thoroughly after handling. No data available. Section 9. Physical and Chemical Properties [] Gas [X] Liquid [] Solid A solution in ethanol (100 ng/ml of each compound) No data. No data. 14.00 C Method Used: Closed Cup No data. No data. :: No data available. :: 13.0% at 25.0 C :: 14.0% at 25.0 C :: 14.3 MM_HG at 20.0 C						
sonal protection equi Protection: tective Gloves: er Protective Clothing spiratory Equipment ecify Type): rk/Hygienic/Maintenar Practices: Software Practices: Software Softwa	Safety glasses Compatible chemical-resistant gloves g:Lab coat NIOSH approved respirator, as conditions warrant. n Do not take internally. Facilities storing or utilizing this material should be equipped with an eyewash and a safety showe Wash thoroughly after handling. No data available. Section 9. Physical and Chemical Properties rsical and Chemical Properties []Gas [X] Liquid []Solid A solution in ethanol (100 ng/ml of each compound) No data. No data. 14.00 C Method Used: Closed Cup No data. : No data available. : No data available. LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C or mm 43 MM_HG at 20.0 C						
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: oor Density (vs. Air = ´							
oor Density (vs. Air = ²							
oific Grouity /Moto-	Vapor Density (vs. Air = 1): No data.						
Specific Gravity (Water = 1): No data. Solubility in Water: No data.							
						oignition Pt:	363.00 C
er Information							
cent Volatile:	No data.						
	Section 10. Stability and Reactivity						
	No data available.						
-							
•	Unstable [] Stable [X] Stable if stored in accordance with information listed on the product insert.						
	Will occur [] Will not occur [X]						
-							
0.4 Conditions To Avoid: heat, flames and sparks 0.5 Incompatibility - Materials alkali metals							
Avola:	peroxides						
	strong oxidizing agents						
ardous	carbon dioxide						
	carbon monoxide						
-							



Multi-region format

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44.4 1.4	action are		ogical Informa		برمانه ما		
 1.1 Information on Toxicological Effects: Chronic Toxicological Effects: 		The toxicological effects of this product have not been thoroughly studied. Ethanol - Toxicity Data: Oral TDLO (man): 1.14 ml/kg; Oral TDLO (man): 650 mg/kg; Oral LD50 (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 (30m); Inhalation TCLO (human): 2,500 mg/m3 (20m); Inhalation LC50 (rat): 5,900 mg/m3 (6h); Inhalation LCLO (mouse): 29,300 ppm (7h); Ethanol - Irritation Data: Eyes (rabbit): 500 mg (24h) mild; Skin (rabbit): 20 mg (24h) moderate; Ethanol - Investigated as a mutagen, reproductive effector, and tumorigen. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information.					
	•.	Ethanol RTECS Number: KQ6300000					
Carcinogenio	-	NTP? No IARC Monographs? No OSHA Regulated? No ponents (Chemical Name) NTP IARC ACGIH					
89663-86-5	5(S),6(R)-Lipoxin		n.a.	n.a.	n.a.	OSHA n.a.	
98049-69-5	Lipoxin B4	A4	n.a.	n.a.	n.a.	n.a.	
171030-11-8	· ·	.ipoxin A4	n.a.	n.a.	n.a.	n.a.	
506-32-1	Arachidonic acid	1	n.a.	n.a.	n.a.	n.a.	
64-17-5	Ethyl alcohol		n.a.	1	A4	n.a.	
		Section 12. Ecolo	aiool Informati				
Degra 12.3 Bioac Poten 12.4 Mobil 12.5 Resul asses	stence and dability: cumulative tial: ity in Soil: ts of PBT and vPvB sment: adverse effects:	Runoff from fire control or dilutio No data available. No data available. No data available. No data available. No data available. Section 13. Dispos					
13.1 Waste	·						
		Section 14. Trans	sport Informati	ion			
DOT Pro	D TRANSPORT (US per Shipping Name ard Class: lumber:	-	LE LIQUID Packing Grou	p:	II		

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14.1 LAND TRANSPORT (European ADR/RID):							
ADR/RID S	hipping Name:	Ethyl Alcohol Solution					
UN Number:		1170	Packing Group:		II		
Hazard Class:		3 - FLAMMABLE LIQUID					
14.3 AIR TRANSPORT (ICAO/IATA):							
	Shipping Name:	Ethyl Alcohol Solution					
UN Numbe		1170	Packing Gro	oup:	II		
Hazard Class:		3 - FLAMMABLE LIQUID	IATA Classi	•	3		
Additional Tra	nsport	Transport in accordance with lo					
Information:		When sold in quantities of less		-	epted Quantity Code of		
		E1, E2, E4, or E5, this item me	ets the De Minimis C	Quantities exemption, p	ber IATA 2.6.10.		
		Therefore packaging does not h	nave to be labeled a	s Dangerous Goods/E	excepted Quantity.		
		Section 15. Regul	atory Informa	ation			
EPA SARA (Si	uperfund Amendn	nents and Reauthorization Act	of 1986) Lists		·		
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
89663-86-5	5(S),6(R)-Lipoxir	א A4	No	No	No		
98049-69-5	Lipoxin B4		No	No	No		
171030-11-8	5(S),6(R),15(R)-I	Lipoxin A4	No	No	No		
506-32-1	Arachidonic acid		No	No	No		
64-17-5 Ethyl alcohol			No	No	No		
		nponents (Chemical Name)	Other US EPA or State Lists				
89663-86-5 5(S),6(R)-Lipoxin		1 A4	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
98049-69-5 Lipoxin B4			CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No); TSCA: No; CA		
171030-11-8 5(S),6(R),15(R)-L		Lipoxin A4	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; PROP.65: No		y; TSCA: No; CA		
506-32-1 Arachidonic acid			CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; PROP.65: No		; TSCA: No; CA		
64-17-5 Ethyl alcohol			CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No		; TSCA: Yes -		
Regulatory Info	ormation	This SDS was prepared in acco	rdance with 29 CFR	1910.1200 and Regu	lation (EC)		
Statement:		No.1272/2008.					
		Section 16. Oth	ner Informatio	on			
Revision Date:		05/28/2016					
Additional Information About		No data available.					
This Product:							
Company Polic	cy 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 lia	ability resulting from its		
		use. Users should make their o	wn investigations to	determine the suitabil	lity of the information for		
		their particular purposes.					
					Multi-region format		