

Revision: 04/17/2017

		accord	ling to Regulation (EC) No. 190	7/2006 as amended by	/ (EC) No. 1272/200	)8			
		Section 1. Ide	entification of the Substar	nce/Mixture and of	the Company/U	ndertaking			
1.1	1     Product Code:     20666       Product Name:     Arachidonic Acid Oxylip			n LC-MS Mixture					
1.2	Releva	nt identified uses of t	he substance or mixture a	and uses advised ag	gainst:				
	Relev	ant identified uses:	For research use only, ne	ot for human or veter	rinary use.				
1.3	Details	of the Supplier of the	Safety Data Sheet:						
	Comp	bany Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	bany					
	Web s	site address:	www.caymanchem.com						
	Inform	nation:	Cayman Chemical Comp	bany	+1 (734	4)971-3335			
1.4	Emerge	ency telephone numb	er:						
	Emerg	gency Contact:	CHEMTREC Within USA CHEMTREC Outside US			0)424-9300 3)527-3887			
			Section 2. Ha	zards Identific	cation				
2.1	Classifi	ication of the Substar	nce or Mixture:						
	Flam	mable Liquids, Categ	ory 2						
2.2	Label E	lements:							
	GHS Signal Word: Danger								
		GHS Hazard Phrases:							
		H225: Highly flammable liquid and vapor.							
		Precaution Phrases:	t/anarka/anan flamaa/hat ay	urfacea) No amakin	~				
		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:								
		•	Storage and Section 13 for	Disposal information	n.				
2.3			laterial may be irritating to t	-		spiratory tract.			
	Effects	and Symptoms: N	lay be harmful by inhalation	, ingestion, or skin a	bsorption.				
		May cause eye, skin, or respiratory system irritation.							
		Т	o the best of our knowledge	e, the toxicological pr	operties have not	been thoroughly investigated.			
		Sectio	n 3. Composition	/Information of	on Ingredie	nts			
CAS RTE	6 # / CS #	Hazardous Components (Chemical Name)/ REACH Registration No.		Concentration	EC No./ EC Index No.	GHS Classification			
548 NA	345-95-3	15(S)-HETE		0.001 %	NA NA	Flam. Liq. 2: H225 Skin Corr. 2: H315 Eye Damage 2A: H319 STOT (SE) 3: H335 H336			
548	86-50-9	11(S)-HETE		0.001 %	NA	No data available.			

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C. H. I.M. I.C.	A 1		1		1	
NA				NA		
81416-72-0 NA	15-OxoETE		0.001 %	NA NA	No data available.	
98462-03-4 NA	8(S)-HETE		0.001 %	NA NA	Skin Corr. 2: H315 Eye Damage 2A: H319 STOT (SE) 3: H335	
54397-83-0 NA	12(S)-HETE		0.001 %	NA NA	No data available.	
107656-14-4 NA	9(R)-HETE		0.001 %	NA NA	No data available.	
70608-72-9 JX3873000	5(S)-HETE		0.001 %	NA NA	Skin Corr. 2: H315 Eye Damage 2A: H319 STOT (SE) 3: H335 H336	
108437-64-5 NA	12-OxoETE		0.001 %	NA NA	No data available.	
106154-18-1 NA	5-OxoETE		0.001 %	NA NA	No data available.	
64-17-5 KQ6300000	Ethyl alcohol		99.991 %	200-578-6 603-002-00-5	Flam. Liq. 2: H225	
		Section -	4. First Aid Mea	asures		
4.1 Desc	ription of First Aid					
	sures:					
In Ca	se of Inhalation:			ficial respiration or gi	ve oxygen by trained personnel.	
		Get immediate medic	al attention.			
In Ca	se of Skin Contact:	Immediately wash ski	in with soap and plenty c	of water for at least 1	5 minutes. Remove contaminate	
		clothing. Get medical	attention if symptoms of	ccur. Wash clothing b	pefore reuse.	
In Ca	se of Eye Contact:	-		-	5 minutes. Have eyes examined	
in ou		and tested by medica				
In Ca	so of Ingostion:	-	•	s conscious. Nover a	ive apything by mouth to an	
In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mout unconscious person. Get medical attention. Do NOT induce vomiting unless directed to medical personnel.						
4.2 Impo	rtant Symptoms and	d May cause anemia, c	ough, CNS depression,	drowsiness, headach	ne, heart damage, lassitude	
•		(weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects.				
Delay		, , , , , , , , , , , , , , , , , , ,		* I		
		Section 5.	Fire Fighting M	leasures		
5.1 Suita	ble Extinguishing	Use alcohol-resistant	t foam, carbon dioxide, w	vater, or dry chemica	l spray.	
Medi	a:	Use water spray to c	ool fire-exposed containe	ers.		
Unsu Medi		g A solid water stream	may be inefficient.			
5.2 Flam	mable Properties ar	ndCan release vapors t	hat form explosive mixtu	res at temperatures	at or above the flashpoint.	
Haza	-	Container explosion may occur under fire conditions.				
		Emits toxic fumes un	-			
		Sensitive to static dis				
			-	flash back.		
		Vapors can travel to a source of ignition and flash back. No data available.				
<b>F</b> lact	D4.		ade Classed Curs			
Flash		14.00 C Method Us	·			
Explo	osive Limits:	LEL: 3.3% at	25.0 C UEL: 19.	.0% at 25.0 C		
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Autoignition Pt:

363.00 C

### SAFETY DATA SHEET Arachidonic Acid Oxylipin LC-MS Mixture

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	Autorginuon nu	000:00 0				
<ul> <li>Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIC equivalent), and full protective gear to prevent contact with skin and eyes. Note: Flammable as diluted in ethanol.</li> </ul>				OSH approved or		
		Section 6. Accid	lental Release Measures			
6.1	Protective Precautions, Protective Equipment and Emergency Procedures:	As conditions warrant, we	and provide adequate ventilation. ear a NIOSH approved self-contained breathing app I protection (rubber boots, safety goggles, and heavy			
6.2	Environmental Precautions:	Take steps to avoid release into the environment, if safe to do so.				
6.3		For Contain spill and collect, as appropriate. hingTransfer to a chemical waste container for disposal in accordance with local regulations.				
		Section 7. H	landling and Storage			
7.1	Precautions To Be Taken in Handling:	aken Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure. Keep away from sources of ignition.				
7.2	Precautions To Be Taken in Storing: Other Precautions:	Store in accordance with information listed on the product insert.				
	Sect	ion 8. Exposure	Controls/Personal Protection			
8.1	Exposure Parameters:					
CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations		
64 <b>-</b> 17·	5 Ethyl alcohol	ACGIH TLV	TLV: 1000 ppm STEL: 1000 ppm			
		France VL	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm)			
		OSHA PELs Britain EH40	PEL: 1000 ppm TWA: 1920 mg/m3 (1000 ppm) STEL: ()			
8.2 8.2.1 8.2.2	Exposure Controls: Engineering Controls (Ventilation etc.): Personal protection equip Eye Protection: Protective Gloves: Other Protective Clothing Respiratory Equipment (Specify Type): Work/Hygienic/Maintenan ce Practices:	Safety glasses Compatible chemical-resistant gloves g:Lab coat NIOSH approved respirator, as conditions warrant.				



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9.1	Se	ection 9. Physical and Chemical Properties				
9.1						
	Information on Basic Physical and Chemical Properties					
	Physical States:	[]Gas [X]Liquid []Solid				
	Appearance and Odor:	A solution in ethanol (10 µg/ml each compound)				
	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				
	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.				
	Octanol/Water Partition	No data.				
	Coefficient:					
	Autoignition Pt:	363.00 C				
	Decomposition Temperatu					
	Viscosity:	No data.				
9.2	Other Information					
J.Z	Percent Volatile:	No data.				
	reicent volatile.					
		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				
	Hazardous	carbon dioxide				
10.6	nazardous					
10.6		carbon monoxide				

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			Section 11. Toxicolo	gical Informa	tion			
11.1	Information	n on	The toxicological effects of this pro	oduct have not been	thoroughly s	tudied.		
	Toxicologi	cal Effects:	Ethanol - Toxicity Data: Oral TDLC	O (man): 1.14 ml/kg;	Oral TDLO (	man): 650 mg/k	kg; Oral LD50	
			(rat): 7,060 mg/kg; Oral LD50 (mo	use): 3,450 mg/kg; (	Dral LD50 (m	ouse): 10.5 ml/	kg; Oral LD50	
			(rabbit): 6,300 mg/kg; Inhalation L	C50 (rat): 20,000 pp	m (10h); Inha	alation TCLO (h	uman): 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;					
Chronic Toxicological		xicological	Ethanol - Investigated as a mutage	-		-		
	Effects:		Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.					
			See actual entry in RTECS for cor	•				
			Ethanol RTECS Number: KQ6300000					
Carci	nogenicity:		NTP? No IARC Monographs? No OSHA Regulated? No					
CAS	# H	azardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
5484	45-95-3 15	5(S)-HETE		n.a.	n.a.	n.a.	n.a.	
5488	36-50-9 1 <sup>-</sup>	1(S)-HETE		n.a.	n.a.	n.a.	n.a.	
814′	16-72-0 15	5-OxoETE		n.a.	n.a.	n.a.	n.a.	
9846	62-03-4 8(	(S)-HETE		n.a.	n.a.	n.a.	n.a.	
54397-83-0 12(S)-HETE		2(S)-HETE		n.a.	n.a.	n.a.	n.a.	
107656-14-4 9(R)-HETE		(R)-HETE		n.a.	n.a.	n.a.	n.a.	
7060	08-72-9 5(	(S)-HETE		n.a.	n.a.	n.a.	n.a.	
108437-64-5 12-OxoETE		2-OxoETE		n.a.	n.a.	n.a.	n.a.	
1061	54-18-1 5-	OxoETE		n.a.	n.a.	n.a.	n.a.	
64-17-5 Ethyl alcohol		thyl alcohol		n.a.	1	A4	n.a.	
	·		Section 12. Ecolog	ical Informati	on	•	·	
2.1	Toxicity:		Avoid release into the environmen					
			Runoff from fire control or dilution	water may cause po	ollution.			
2.2	Persistence	e and	No data available.					
	Degradabil	ity:						
2.3	Bioaccumu	lative	No data available.					
	Potential:							
			No data available.					
2.4	Mobility in							
2.4	-		No data available.					
	-	PBT and vPvB	No data available.					



	Section 13. Disposal Considerations					
13.1 Waste I	.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.					
Section 14. Transport Information						
14.1 LAND	TRANSPORT (US D	OT):				
DOT Prop	er Shipping Name:	Ethyl Alcohol Solution	on			
DOT Haza	rd Class:	3 FLA	MMABLE LIQUID			
UN/NA Nu	mber:	1170	Packing G	Froup:	II	
		FLYMMUBEL LIQUID				
	TRANSPORT (Euro	pean ADR/RID):				
	Shipping Name:	Ethyl Alcohol Solution				
UN Numbe		1170	Packing G	Broup:	II	
Hazard Cla		3 - FLAMMABLE LI	QUID			
		-				
UN Numbe	A Shipping Name:	Ethyl Alcohol Solutio				
Hazard Cla		3 - FLAMMABLE LI	Packing G QUID IATA Clas	-	 3	
Additional Tra		-	with local, state, and fed		5	
Information:		When sold in quantities E1, E2, E4, or E5, this it		mL, or 1 g, with an Quantities exempti		
		Section 15. F	Regulatory Inform	nation		
EPA SARA (S	uperfund Amendme	ents and Reauthorization	on Act of 1986) Lists			
CAS #	Hazardous Comp	onents (Chemical Nam	e) S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
54845-95-3	15(S)-HETE		No	No	No	
54886-50-9	11(S)-HETE		No	No	No	
81416-72-0	15-OxoETE		No	No	No	
98462-03-4	8(S)-HETE		No	No	No	
54397-83-0	12(S)-HETE		No	No	No	
107656-14-4	9(R)-HETE		No	No	No	
70608-72-9	5(S)-HETE		No	No	No	
108437-64-5	12-OxoETE		No	No	No	
106154-18-1	5-OxoETE		No	No	No	
64-17-5	Ethyl alcohol		No	No	No	
				-		
CAS #	-	onents (Chemical Nam	•			
54845-95-3	15(S)-HETE		PROP.65: No		: No; TSCA: No; CA	
54886-50-9	11(S)-HETE		CAA HAP,ODC PROP.65: No	C: No; CWA NPDES	: No; TSCA: No; CA	
81416-72-0	15-OxoETE		CAA HAP,ODC PROP.65: No	: No; CWA NPDES	: No; TSCA: No; CA	
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98462-03-4	8(S)-HETE		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No		
54397-83-0	12(S)-HETE		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No		
107656-14-4	9(R)-HETE		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No		
70608-72-9	5(S)-HETE		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No		
108437-64-5	12-OxoETE		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No		
106154-18-1	5-OxoETE		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 Statement:	ormation	This SDS was prepared in acco No.1272/2008.	ordance with 29 CFR 1910.1200 and Regulation (EC)		
		Section 16. Oth	ner Information		
Revision Date:	:	04/17/2017			
Additional Info This Product:	ormation About	No data available.			
Company Poli	cy or Disclaimer:	DISCLAIMER: This information is believed to be accurate and represents the best information			
		express or implied, with respect	ver, we make no warranty of merchantability or any other warranty, to such information, and we assume no liability resulting from its own investigations to determine the suitability of the information for		