

64-17-5

KQ6300000

Ethyl alcohol

#### SAFETY DATA SHEET Docosatrienoic Acid methyl ester

Revision: 05/29/2017

Supersedes Revision: 11/19/2016 according 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 1.1 **Product Code:** 20567 Product Name: Docosatrienoic Acid methyl ester Synonyms: 13Z,16Z,19Z-docosatrienoic acid, methyl ester; cis-13,16,19-Docosatrienoic Acid methyl ester; 1.2 Relevant identified uses of the substance or mixture and uses advised against: Relevant identified uses: For research use only, not for human or veterinary use. 1.3 Details of the Supplier of the Safety Data Sheet: Cayman Chemical Company Company Name: 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 number: Emergency Contact:** CHEMTREC Within USA and Canada: +1 (800)424-9300 CHEMTREC Outside USA and Canada: +1 (703)527-3887 Section 2. Hazards Identification **Classification of the Substance or Mixture:** 2.1 Flammable Liquids, Category 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 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 Section 7 for Storage and Section 13 for Disposal information. Material may be irritating to the mucous membranes and upper respiratory tract. 2.3 Adverse Human Health May be harmful by inhalation, ingestion, or skin absorption. Effects and Symptoms: May cause eye, skin, or respiratory system irritation. To the best of our knowledge, the toxicological properties have not been thoroughly investigated. Section 3. Composition/Information on Ingredients Hazardous Components (Chemical Name)/ EC No./ **GHS Classification** CAS #/ Concentration **RTECS #** EC Index No. **REACH Registration No.** 108698-01-7 Docosatrienoic Acid methyl ester 0.1 % NA No data available. NA NA

99.9 %

200-578-6

603-002-00-5

Multi-region format

Flam. Liq. 2: H225



Revision: 05/29/2017 Supersedes Revision: 11/19/2016

		Section 4. First Aid Measures				
4.1	Description of First Aid					
	Measures:					
	In Case of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. 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.				
	In Case of Eye Contact:	Hold eyelids apart and flush eyes with plenty of water for at least 15 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.				
4.2	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				
5.1	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.				
5.2	Flammable Properties an	dCan 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	<b>:</b> 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				
6.1	Protective Precautions, Protective Equipment an Emergency Procedures:	<ul> <li>Avoid raising and breathing dust, and provide adequate ventilation.</li> <li>d 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).</li> </ul>				
6.2	Environmental Precautions:	Take steps to avoid release into the environment, if safe to do so.				
6.3	Methods and Material For Contain spill and collect, as appropriate.					
		ng Transfer to a chemical waste container for disposal in accordance with local regulations.				



Page: 3 of 6

Revision: 05/29/2017 Supersedes Revision: 11/19/2016

	HEMICAL				Supersedes Revi	ision: 11/19/2016		
			Section 7. Han	dling and Storage				
7.1	Precautions To Be Taken	Avoid	breathing dust/fume/ga	s/mist/vapours/spray.				
	in Handling:	Avoid	prolonged or repeated e	exposure.				
		Keep away from sources of ignition.						
		Take precautionary measures against static discharge.						
7.2	Precautions To Be Taken	<ul> <li>Keep away from heat, flames, and sparks.</li> <li>Keep container tightly closed.</li> </ul>						
	in Storing:							
		Store	in accordance with infor	mation listed on the product inse	ert.			
	Other Precautions:	Hygroscopic						
	Sect	ion 8	B. Exposure Co	ntrols/Personal Prote	ection			
8.1	Exposure Parameters:							
CAS #	# Chemical Name		Jurisdiction	Recommended Exposure I	_imits	Notations		
64-17	-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	PEL: 1000 ppm				
			Britain EH40	TWA: 1920 mg/m3 (1000 ppm)				
			-	STEL: ()				
8.2	Exposure Controls:							
8.2.1	Engineering Controls	Use p	rocess enclosures, loca	exhaust ventilation, or other eng	gineering controls to	o control airborne		
	(Ventilation etc.):	levels	below recommended ex	cposure limits.				
8.2.2	Personal protection equip	Personal protection equipment:						
	Eye Protection:	Safety	glasses					
1	Protective Gloves: Compatible chemical-resistant gloves							
	Other Protective Clothing:Lab coat							
	<b>Respiratory Equipment</b> NIOSH approved respirator, as conditions warrant.							
	(Specify Type):	pecify 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 showe						
		Wash thoroughly after handling.						
		No da	ta available.					
	S	ectio	n 9. Physical a	nd Chemical Propert	ies			
9.1	Information on Basic Phys		-	•				
	Physical States:		[]Gas [X]Liquio	d [] Solid				
	Appearance and Odor:		A solution in ethanol					
I	pH:		No data.					
	Melting Point:		No data.					
	Boiling Point:		No data.					
	Flash Pt:		14.00 C Method Use	ed: Closed Cup				
	Evaporation Rate:		No data.					
	Flammability (solid, gas):		No data available.					
	Explosive Limits:		LEL: 3.3% at 2	25.0 C UEL: 19.0% a	at 25.0 C			
	Vapor Pressure (vs. Air o	r mm	43 MM_HG at 20	.0 C				
	Hg):							
	Vapor Density (vs. Air = 1	):	No data.					
ĺ						Multi-region format		
						-		

Page: 4 of 6

	CHIMICAL						0		NOTI. 11/13/2010
	•	Gravity (Water	= 1):	No data.					
	Solubili	ty in Water:		No data.					
	Octanol	/Water Partition		No data.					
	Coeffici	ent:							
	Autoign	ition Pt:		363.00 C					
	Decomp	osition Tempera	ature:	No data.					
	Viscosit	iy:		No data.					
9.2	Other In	formation							
	Percent	Volatile:		No data.					
	Molecul	ar Formula & We	eight:	C23H40O2	348.6				
			S	Section 10.	Stability and	Reactiv	vitv		
10.1	Reactiv	itv:		ata available.	,		, ,		
10.2	Stability	-			ble [ X ]				
10.3	-	Note(s):			ordance with inform	ation listed o	on the product	insert.	
	-	rization:			I not occur [ X ]				
10.4	•	ons To Avoid:		flames, and spai					
10.5		atibility - Materia							
10.5	To Avoi	-	ammonia						
		u.		peroxides					
			-	g oxidizing agent	s				
10.6	Hazardo		-	carbon dioxide					
10.0				bon monoxide					
	Byprod		carbo						
	Dyprou		<u> </u>	oction 11	Toxicological	Informa	otion		
					Toxicological				
11.1	Toxicological Effects: Ethan (rat): 7 (rabbi ppm ( (6h); I		toxicological effects of this product have not been thoroughly studied.						
				hanol - Toxicity Data: Oral TDLO (man): 1.14 ml/kg; Oral TDLO (man): 650 mg/kg; Oral LD50					
			: 7,060 mg/kg; Oral LD50 (mouse): 3,450 mg/kg; Oral LD50 (mouse): 10.5 ml/kg; Oral LD50						
			bit): 6,300 mg/kg; Inhalation LC50 (rat): 20,000 ppm (10h); Inhalation TCLO (human): 1,800 (30m); Inhalation TCLO (human): 2,500 mg/m3 (20m); Inhalation LC50 (rat): 5,900 mg/m3						
			; Inhalation LCLO (mouse): 29,300 ppm (7h);						
			anol - Irritation Data: Eyes (rabbit): 500 mg (24h) mild; Skin (rabbit): 20 mg (24h) moderate;						
				nanol - Investigated as a mutagen, reproductive effector, and tumorigen.					
	Effects:	-		0	f Toxic Effects of C			0	sented here
	Ellecis.			0	ECS for complete i				Sented here.
				nol RTECS Numb					
CAS	#	Hazardous Co		ts (Chemical Na		NTP	IARC	ACGIH	OSHA
108698-01-7		Docosatrienoic Acid methyl ester		,	n.a.	n.a.	n.a.	n.a.	
64-17-5		Ethyl alcohol				n.a.	1	A4	n.a.
04-17-0						11.a.	•		11.4.



Revision: 05/29/2017 Supersedes Revision: 11/19/2016

	Section 12. Ecological Information								
12.1	•								
	Runoff from fire control or dilution water may cause pollution.								
12.2	Persiste Degrada	nce and ability:	No data available.						
12.3	Bioaccu Potentia	mulative	No data available.						
12.4	Mobility	in Soil:	No data available.	No data available					
12.5		of PBT and vPvB							
12.6		dverse effects:	No data available.						
			Section 13. Dispos	sal Considerat	ions				
13.1	Waste D	isposal Method:	Dispose in accordance with loca	al, state, and federal r	egulations.				
			Section 14. Tran	sport Informat	ion				
14.1	LAND T	RANSPORT (US I	DOT):						
D	OT Prope	er Shipping Name:	Ethyl Alcohol Solution						
D	OT Hazar	d Class:	3 FLAMMAB	3 FLAMMABLE LIQUID					
U U	N/NA Nur	nber:	UN1170	Packing Grou	ıp:	II			
14.1									
14.1		RANSPORT (Euro							
	N Numbe	hipping Name:	Ethyl Alcohol Solution 1170 Packing Group: II						
_	azard Cla		3 - FLAMMABLE LIQUID						
		ANSPORT (ICAO/I							
		Shipping Name:	Ethyl Alcohol Solution						
UN Number:			1170	Packing Group:		II			
Hazard Class:		SS:	3 - FLAMMABLE LIQUID	IATA Classification:		3			
Additional TransportTransport in accordance with local, state, and federal regulations.Information: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 have to be labeled as Dangerous Goods/Excepted Quantity.						ber IATA 2.6.10.			
	Section 15. Regulatory Information								
EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists									
CAS	CAS # Hazardous Com		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)			
1086	98-01-7	Docosatrienoic A	cid methyl ester	No	No	No			
64	-17-5	Ethyl alcohol		No No No					
CAS	#	Hazardous Components (Chemical Name) Other US EPA or State Lists							
1086	98-01-7 Docosatrienoic Acid methyl ester			CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No					
64	64-17-5 Ethyl alcohol			CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes -					
						Multi-region format			



Page: 6 of 6

Revision: 05/29/2017

Cayman	Supersedes Revision: 11/19/2016				
	Inventory; CA PROP.65: No				
Regulatory InformationThis SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (ECStatement:No.1272/2008.					
	Section 16. Other Information				
Revision Date:         05/29/2017					
Additional Information About This Product:	No data available.				
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.				