

SAFETY DATA SHEET AOCS Medium- and Long-chain Fatty Acid Methyl Revision: 12/14/2019 Ester Standard Mixture 2

		according to	Regulation (EC) No. 1907/2006 as	amended by (EC) No. 201	5/830 and US OSHA HCS	2015
		_	ntification of the Substa			
1.1	Product Product	Code:	28670 AOCS Medium- and Lor			-
1.2	Relevar	it identified uses of th	e substance or mixture	and uses advised	against:	
	Releva	ant identified uses:	For research use only, r	not for human or vel	erinary use.	
1.3	Details	of the Supplier of the	Safety Data Sheet:			
	Comp	any Name:	Cayman Chemical Com 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	pany		
		ite address:	www.caymanchem.com			
		nation:	Cayman Chemical Com	pany	+1 (73	4)971-3335
1.4	•	ncy telephone numbe gency Contact:	ST: CHEMTREC Within US, CHEMTREC Outside US			0)424-9300 3)527-3887
			Section 2. Ha	zards Identif	ication	
2.1 2.2		cation of the Substan lements:	ce or Mixture:			
2.3	GHS Signal Word: None GHS Hazard Phrases: Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS. GHS Precautionary Phrases: No phrases apply. GHS Response Phrases: No phrases apply. GHS Storage and Disposal 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 membranes and upper respiratory tract. Effects and Symptoms: May be harmful by inhalation, ingestion, or skin absorption. To the best of our knowledge, the toxicological properties have not been thoroughly investigated.					
	. # /	1	n 3. Compositior	Concentration	EC No./	GHS Classification
	CS #	REACH Registration		Concentration	EC Index No.	GHS Classification
12 NA	4-10-7	Tetradecanoic acid, Met 01-2120754348-47	hyl ester	NA	204-680-1 NA	No GHS classifications apply.
	2-39-0 720000	Hexadecanoic acid, Met 01-2119487985-14	hyl ester	NA	203-966-3 NA	No data available.
112 NA	20-25-8	methyl (Z)-hexadec-9-er	noate	NA	214-303-2 NA	No data available.
	2-61-8 60000	Octadecanoic acid, Meth 01-2119487985-14	nyl ester	NA	203-990-4 NA	No GHS classifications apply.
	2-62-9 395000	9-Octadecenoic acid (Z)	-, Methyl ester	NA	203-992-5 NA	No data available.
11: NA	2-63-0	9,12-Octadecadienoic a	cid (Z,Z)-, methyl ester	NA	203-993-0 NA	No GHS classifications apply.



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Multi-region format

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301 NA	1-00-8	Methyl (9Z,12Z,15Z) - 9,12,15 - octadecatrienoate	NA	206-102-3 NA	No GHS classifications apply.		
		·	Section 4. Fi	rst Aid Measu	ires			
4.1 Description of First Aid								
	Measur	res:						
	In Case	e of Inhalation:	Remove to fresh air. If not bre Get immediate medical attent		respiration or giv	e oxygen by trained personnel.		
	In Case	of Skin Contact:	Immediately wash skin with s clothing. Get medical attentio			minutes. Remove contaminated efore reuse.		
	In Case	of Eye Contact:	Hold eyelids apart and flush e and tested by medical person		ater for at least 1	5 minutes. Have eyes examined		
	In Case	e of Ingestion:	Wash out mouth with water p unconscious person. Get med medical personnel.	-	-			
			Section 5. Fire	Fighting Mea	isures			
5.1	Suitabl	e Extinguishing	Use alcohol-resistant foam, c	arbon dioxide, water	, or dry chemical	spray.		
	Media:	0 0	Use water spray to cool fire-e		. ,			
	Unsuita	able Extinguishing	A solid water stream may be	inefficient.				
	Media:							
5.2	Flamma	able Properties an	id No data available.					
	Hazard	s:						
			No data available.					
	Flash F	Pt:	No data.					
	Explos	ive Limits:	LEL: No data.	UEL: No dat	ta.			
	Autoig	nition Pt:	No data.					
5.3	Fire Fiç	phting Instructions	s:As in any fire, wear self-conta equivalent), and full protectiv		-			
			Section 6. Acciden	tal Release M	leasures			
6.1	Protect	tive Precautions,	Avoid raising and breathing	dust, and provide ade	equate ventilation			
	Protect	tive Equipment an	d As conditions warrant, wear	a NIOSH approved s	elf-contained bre	athing apparatus, or respirator,		
	Emerge	ency Procedures:	and appropriate personal pro	otection (rubber boots	s, safety goggles,	and heavy rubber gloves).		
6.2	Enviro	nmental	Take steps to avoid release	into the environment,	, if safe to do so.			
	Precau	tions:						
6.3			r Contain spill and collect, as					
	Contaiı	nment and Cleanir	ng Transfer to a chemical waste	e container for dispos	al in accordance	with local regulations.		
	Up:							
			Section 7. Har	ndling and Sto	orage			
7.1	Precau	tions To Be Taker	Avoid breathing dust/fume/ga	as/mist/vapours/spray	/.			
	in Hand	dling:	Avoid prolonged or repeated	exposure.				
7.2	Precau	tions To Be Taker	Keep container tightly closed					
	in Stori	ing:	Store in accordance with info	rmation listed on the	product insert.			



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	Sec	ction 8. Exposure Controls/Personal Protection				
8.1	Exposure Parameters:					
8.2	Exposure Controls:					
8.2.1	Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne				
	(Ventilation etc.):	levels below recommended exposure limits.				
8.2.2	Personal protection equi	ipment:				
	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/Maintena	n Do not take internally.				
	ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.				
		Wash thoroughly after handling.				
		No data available.				
	S	Section 9. Physical and Chemical Properties				
9.1	Information on Basic Phy	ysical and Chemical Properties				
	Physical States:	[]Gas [X]Liquid []Solid				
	Appearance and Odor:	A liquid				
	pH:	No data.				
	Melting Point:	No data.				
	Boiling Point:	No data.				
	Flash Pt:	No data.				
	Evaporation Rate:	No data.				
	Flammability (solid, gas)): No data available.				
	Explosive Limits:	LEL: No data. UEL: No data.				
	Vapor Pressure (vs. Air o	or mm No data.				
	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:	No data.				
	Decomposition Tempera	ature: No data.				
	Viscosity:	No data.				
9.2	Other Information					
	Percent Volatile:	No data.				
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	usu.		Ester Standar	d Mixture	2			
			Section 10. Stability a	ind Reacti	vity			
0.1 0.2 0.3	Reactivity Stability: Stability I		No data available. Unstable [] Stable [X] Stable if stored in accordance with information listed on the product insert.					
	Polymeria	zation:	Will occur [] Will not occur [X]					
).4	Condition	ns To Avoid:	No data available.					
0.5	Incompat	tibility - Materials	strong oxidizing agents					
	To Avoid							
0.6	Hazardou	-	carbon dioxide carbon monoxide					
	Decompo Byproduo		carbon monoxide					
			Section 11. Toxicologic	cal Informa	ation			
1.1	Informati Toxicolog	on on gical Effects:	The toxicological effects of this produc	ct have not beer	n thoroughly st	udied.		
CAS	#	Hazardous Com	oonents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
124	4-10-7	Tetradecanoic ac	d, Methyl ester	n.a.	n.a.	n.a.	n.a.	
112	2-39-0	Hexadecanoic ac	d, Methyl ester	n.a.	n.a.	n.a.	n.a.	
112	0-25-8	methyl (Z)-hexade	ec-9-enoate	n.a.	n.a.	n.a.	n.a.	
112	2-61-8	Octadecanoic aci	d, Methyl ester	n.a.	n.a.	n.a.	n.a.	
112	2-62-9	9-Octadecenoic a	cid (Z)-, Methyl ester	n.a.	n.a.	n.a.	n.a.	
112-63-0 9,12-Octadecadie		9,12-Octadecadie	noic acid (Z,Z)-, methyl ester	n.a.	n.a.	n.a.	n.a.	
301	1-00-8	Methyl (9Z,12Z,18	5Z) - 9,12,15 - octadecatrienoate	n.a.	n.a.	n.a.	n.a.	
			Section 12. Ecologica	al Informat	ion			
12.1 Toxicity: Avoid release into the environment.								
			Runoff from fire control or dilution wat	er may cause p	ollution.			
2.2	Persisten		No data available.					
	Degradat	-						
2.3	Bioaccun Potential		No data available.					
2.4	Mobility i		No data available.					
2.5	-		3 No data available.					
	assessme							
	Other adv	verse effects:	No data available.					
2.6			Section 13 Disposal (onsiderat	ions			
2.6			Section 13. Disposal Considerations 13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.					



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			_				
	Section 14. Trans	sport Informa	tion				
14.1 LAND	TRANSPORT (US DOT):						
DOT Proper Shipping Name: Not dangerous goods.							
DOT Haza							
UN/NA Number:							
	TRANSPORT (European ADR/RID):						
	Shipping Name: Not dangerous goods.						
UN Numbe							
	ANSPORT (ICAO/IATA):						
	A Shipping Name: Not dangerous goods.	Packing Gro	up:				
Hazard Cla			up.				
Additional Tra		cal, state, and federa	al regulations.				
Information:		,, 					
	Section 15. Regula	atory Informa	ition				
EPA SARA (S	uperfund Amendments and Reauthorization Act o						
CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)			
124-10-7	Tetradecanoic acid, Methyl ester	No	No	No			
112-39-0	Hexadecanoic acid, Methyl ester	No	No	No			
1120-25-8	methyl (Z)-hexadec-9-enoate	No	No	No			
112-61-8	Octadecanoic acid, Methyl ester	No	No	No			
112-62-9	9-Octadecenoic acid (Z)-, Methyl ester	No	No	No			
112-63-0	9,12-Octadecadienoic acid (Z,Z)-, methyl ester	No	No	No			
301-00-8	Methyl (9Z,12Z,15Z) - 9,12,15 - octadecatrienoate	No	No	No			
CAS #	Hazardous Components (Chemical Name)	Other US EPA or	State Lists	•			
124-10-7	Tetradecanoic acid, Methyl ester		lo; CWA NPDES: N	No; TSCA: Yes -			
		Inventory; CA PR					
112-39-0	112-39-0 Hexadecanoic acid, Methyl ester CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes Inventory; CA PROP.65: No		lo; TSCA: Yes -				
1120-25-8			No; TSCA: No; CA				
112-61-8	112-61-8 Octadecanoic acid, Methyl ester		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No				
112-62-9	9-Octadecenoic acid (Z)-, Methyl ester	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No					
	112-63-0 9,12-Octadecadienoic acid (Z,Z)-, methyl ester CA		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No				
112-63-0		Inventory; CA PR	01.00.110				



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Regulatory Information Statement:	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.
Statement:	
	Section 16. Other Information
Revision Date: Additional Information About	12/14/2019
This Product:	No data available.
This Product: 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.