

ML9720000

01-2119487985-14

SAFETY DATA SHEET AOCS Canola Oil Fatty Acid Methyl Ester

Revision: 12/16/2019

Page: 1 of 7

Caj	man		Star	dard Mixture	•	Revision. 12/10/2019
		according	to Regulation (EC) No. 1907/2006 as a	amended by (EC) No. 2015/8	330 and US OSHA HCS	2015
		Section 1. Id	entification of the Substar	nce/Mixture and of t	the Company/Ur	ndertaking
1.1	Produc	t Code:	29365			
	Produc	t Name:	AOCS Canola Oil Fatty	Acid Methyl Ester Sta	andard Mixture	
1.2	Releva	nt identified uses of t	the substance or mixture a	and uses advised ag	gainst:	
	Relev	ant identified uses:	For research use only, n	ot for human or veter	rinary use.	
1.3		of the Supplier of the	-			
	Comp	oany Name:	Cayman Chemical Comp	bany		
			1180 E. Ellsworth Rd. Ann Arbor, MI 48108			
	Web s	site address:	www.caymanchem.com			
	Inform	nation:	Cayman Chemical Com	bany	+1 (734	4)971-3335
1.4	Emerge	ency telephone num	per:			
	Emer	gency Contact:	CHEMTREC Within USA	A and Canada:	+1 (80	0)424-9300
			CHEMTREC Outside US	SA and Canada:	+1 (70	3)527-3887
			Section 2. Ha	zards Identific	cation	
2.1	Classif	ication of the Substa	nce or Mixture:			
	Carci	nogenicity, Category	2			
2.2	Label E	lements:				
		Signal Word:	Warning			
		Hazard Phrases: : Suspected of causing	n cancer			
		Precautionary Phras	-			
		Obtain special instruc				
	P202	Do not handle until a	I safety precautions have be	een read and underst	tood.	
	P280	Wear {protective glov	es/protective clothing/eye p	rotection/face protect	tion}.	
	GHS	Response Phrases:				
		-	oncerned: Get medical atter	ntion/advice.		
		Storage and Dispose		D		
			Storage and Section 13 for	-		niroton (troot
2.3			<i>l</i> laterial may be irritating to t <i>l</i> lay be harmful by inhalatior			piratory tract.
	Lifecta		/lay cause eye, skin, or resp	-	-	
			Suspected of causing cance			
		F	o the best of our knowledge	e, the toxicological pr	operties have not	been thoroughly investigated.
		Sectio	on 3. Composition	/Information d	on Ingredier	nts
CAS	;#/	Hazardous Compo	nents (Chemical Name)/	Concentration	EC No./	GHS Classification
	CS #	REACH Registratio			EC Index No.	
12 NA	4-10-7	Tetradecanoic acid, Me 01-2120754348-47	ethyl ester	2.5 %	204-680-1 NA	No GHS classifications apply.
11	2-39-0	Hexadecanoic acid, Me	ethyl ester	2.5 %	203-966-3	No data available.

Multi-region format

NA



SAFETY DATA SHEET AOCS Canola Oil Fatty Acid Methyl Ester Standard Mixture

Revision:	12/16/2019
	12/10/2010

Eicosanoic acid, met Methyl (9Z,12Z,15Z) methyl cis-icos-11-ei Docosanoic acid, me	ic acid (Z,Z)-, methyl ester ic acid (Z,Z)-, methyl ester thyl ester - 9,12,15 - octadecatrienoate noate ethyl ester methyl ester, (13Z)- te	2.5 % 2.5 % 72.5 %	203-990-4 NA 203-992-5 NA 203-993-0 NA 214-304-8 NA 206-102-3 NA 219-226-8 NA 219-226-8 NA 219-226-8 NA 213-207-8 NA 213-207-8 NA 214-305-3 NA 219-475-2 NA 219-475-2 NA 200-838-9 602-004-00-3	No GHS classifications apply. No data available. No GHS classifications apply. Carcinogen 2: H351			
9,12-Octadecadieno Eicosanoic acid, mei Methyl (9Z,12Z,15Z) methyl cis-icos-11-ei Docosanoic acid, mei 13-Docosenoic acid, methyl tetracosanoa Dichloromethane 01-2119480404-41-(ic acid (Z,Z)-, methyl ester thyl ester - 9,12,15 - octadecatrienoate noate ethyl ester methyl ester te	2.5 % 2.5 % 2.5 % 2.5 % 2.5 % 2.5 % 2.5 % 2.5 % 2.5 % 72.5 %	NA 203-993-0 NA 214-304-8 NA 206-102-3 NA 219-226-8 NA 213-207-8 NA 214-305-3 NA 219-475-2 NA 200-838-9 602-004-00-3	No GHS classifications apply.			
Eicosanoic acid, met Methyl (9Z,12Z,15Z) methyl cis-icos-11-ei Docosanoic acid, me 13-Docosenoic acid, methyl tetracosanoa Dichloromethane 01-2119480404-41-0	thyl ester - 9,12,15 - octadecatrienoate noate ethyl ester methyl ester, (13Z)- te	2.5 % 2.5 % 2.5 % 2.5 % 2.5 % 2.5 % 2.5 % 2.5 % 2.5 % 72.5 %	NA 214-304-8 NA 206-102-3 NA 219-226-8 NA 213-207-8 NA 214-305-3 NA 219-475-2 NA 200-838-9 602-004-00-3	No GHS classifications apply.			
Methyl (9Z,12Z,15Z) methyl cis-icos-11-ei Docosanoic acid, me 13-Docosenoic acid, methyl tetracosanoa Dichloromethane 01-2119480404-41-0 scription of First Aid asures:	r - 9,12,15 - octadecatrienoate noate ethyl ester methyl ester, (13Z)- te	2.5 % 2.5 % 2.5 % 2.5 % 2.5 % 2.5 % 72.5 %	NA 206-102-3 NA 219-226-8 NA 213-207-8 NA 214-305-3 NA 219-475-2 NA 200-838-9 602-004-00-3	No GHS classifications apply. No GHS classifications apply. No GHS classifications apply. No data available. No GHS classifications apply.			
methyl cis-icos-11-ei Docosanoic acid, me 13-Docosenoic acid, methyl tetracosanoa Dichloromethane 01-2119480404-41-(scription of First Aid asures:	noate ethyl ester methyl ester, (13Z)- te	2.5 % 2.5 % 2.5 % 2.5 % 72.5 %	NA 219-226-8 NA 213-207-8 NA 214-305-3 NA 219-475-2 NA 200-838-9 602-004-00-3	No GHS classifications apply. No GHS classifications apply. No data available. No GHS classifications apply.			
Docosanoic acid, me 13-Docosenoic acid, methyl tetracosanoa Dichloromethane 01-2119480404-41-0 scription of First Aid asures:	ethyl ester methyl ester, (13Z)- te	2.5 % 2.5 % 2.5 % 72.5 %	NA 213-207-8 NA 214-305-3 NA 219-475-2 NA 200-838-9 602-004-00-3	No GHS classifications apply. No data available. No GHS classifications apply.			
13-Docosenoic acid, methyl tetracosanoa Dichloromethane 01-2119480404-41-0	methyl ester, (13Z)- te	2.5 % 2.5 % 72.5 %	NA 214-305-3 NA 219-475-2 NA 200-838-9 602-004-00-3	No data available. No GHS classifications apply.			
methyl tetracosanoa Dichloromethane 01-2119480404-41-0 scription of First Aid	te 0000	2.5 % 72.5 %	NA 219-475-2 NA 200-838-9 602-004-00-3	No GHS classifications apply.			
Dichloromethane 01-2119480404-41-(scription of First Aid asures:	0000	72.5 %	NA 200-838-9 602-004-00-3				
01-2119480404-41-0 scription of First Aid asures:			602-004-00-3	Carcinogen 2: H351			
asures:	Section 4. F	irst Aid Me	asures	+			
asures:							
Case of Skin Contact: Case of Eye Contact: Case of Ingestion:	clothing. Get medical attenti Hold eyelids apart and flush and tested by medical perso Wash out mouth with water unconscious person. Get me	on if symptoms eyes with plent onnel. provided person	occur. Wash clothing b y of water for at least 1 n is conscious. Never g	5 minutes. Have eyes examined ive anything by mouth to an			
		. .	N 4				
	Section 5. Fire	e Fighting	Measures				
table Extinguishing							
dia:							
	A solid water stream may b	e inefficient.					
-	-						
ards:							
sh Pt:							
losive Limits:		UEL:	No data.				
-							
5.3 Fire Fighting Instructions: As in any fire, wear self-							
k k k k k k k k k k k k k k k k k k k	ia: uitable Extinguishing ia: nmable Properties an ards: h Pt: losive Limits: bignition Pt:	medical personnel. Section 5. Fire able Extinguishing ia: Use alcohol-resistant foam, Use water spray to cool fire uitable Extinguishing A solid water stream may b ia: mable Properties andNo data available. ards: No data available. h Pt: 40.00 C losive Limits: LEL: No data. bignition Pt: 556.00 C Fighting Instructions: As in any fire, wear self-cor	medical personnel. Section 5. Fire Fighting able Extinguishing Use alcohol-resistant foam, carbon dioxide, Use water spray to cool fire-exposed contain uitable Extinguishing autable Extinguishing A solid water stream may be inefficient. ia: No data available. ards: No data available. h Pt: 40.00 C losive Limits: LEL: No data. UEL: bignition Pt: 556.00 C Fighting Instructions: As in any fire, wear self-contained breathing	Section 5. Fire Fighting Measures able Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemica ia: Use water spray to cool fire-exposed containers. uitable Extinguishing A solid water stream may be inefficient. ia: A solid water stream may be inefficient. ia: No data available. hmable Properties and No data available. No data available. h Pt: 40.00 C losive Limits: LEL: No data. UEL: No data.			

Multi-region format



SAFETY DATA SHEET AOCS Canola Oil Fatty Acid Methyl Ester

Revision: 12/16/2019

Page: 3 of 7

Standard Mixture

		Section 6. Accide	ental Release Measures					
6.1	Protective Precautions,	Avoid raising and breathir	ng dust, and provide adequate ventilation.					
	Protective Equipment ar	nd As conditions warrant, we	ar a NIOSH approved self-contained breathing a	oparatus, or respirator				
	Emergency Procedures:	and appropriate personal	protection (rubber boots, safety goggles, and hea	avy rubber gloves).				
6.2	Environmental Take steps to avoid release into the environment, if safe to do so.							
	Precautions:							
6.3	Methods and Material Fo	as appropriate.						
		-	aste container for disposal in accordance with loca	al regulations.				
	Up:	-						
		Section 7. Ha	andling and Storage					
7.1	Precautions To Be Take	n Avoid breathing dust/fume	· · ·					
	in Handling:	Avoid prolonged or repeate	ed exposure.					
7.2	Precautions To Be Take	n Keep away from heat, spa	arks, and flame.					
	in Storing:	Keep container tightly clos	sed.					
		Store in accordance with in	nformation listed on the product insert.					
	Soc	tion 8 Exposure (Controls/Porsonal Protoction					
8.1	Exposure Parameters:		Controls/Personal Protection					
CAS #	-	Jurisdiction	Decommended Eveneouse Limite	Notations				
			Recommended Exposure Limits	Notations				
75-09	-2 Dichloromethane	ACGIH TLV France VL	TLV: 50 ppm TWA: 180 mg/m3 (50 ppm)					
			STEL: 350 mg/m3 (100 ppm)					
		OSHA PELs	PEL: 25 ppm					
			STEL: 125 ppm (15 min)					
		Britain EH40	TWA: 350 mg/m3 (100 ppm)	Skin Absorptio				
			STEL: 1060 mg/m3 (300 ppm)					
8.2	Exposure Controls:							
8.2.1	Engineering Controls		ocal exhaust ventilation, or other engineering con	trols to control airborn				
	(Ventilation etc.):	levels below recommende	a exposure limits.					
8.2.2	Personal protection equ	iipment:						
	Eye Protection:	Safety glasses						
	Protective Gloves:	Compatible chemical-resistant gloves						
	Other Protective Clothin	ו g: 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 showe						
		Wash thoroughly after han	ndling.					
		No data available.						



SAFETY DATA SHEET AOCS Canola Oil Fatty Acid Methyl Ester Standard Mixture

Revision: 12/16/2019

	Se	ction 9. Physical and Chemical Properties		
9.1	Information on Basic Physi	cal and Chemical Properties		
	Physical States:	[]Gas [X]Liquid []Solid		
	Appearance and Odor:	A solution in dichloromethane		
	pH:	No data.		
	Melting Point:	No data.		
	Boiling Point:	No data.		
	Flash Pt:	40.00 C		
	Evaporation Rate:	No data.		
	Flammability (solid, gas):	No data available.		
	Explosive Limits:	LEL: No data. UEL: No data.		
	Vapor Pressure (vs. Air or	mm 350 MM_HG		
	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:	556.00 C		
	Decomposition Temperatu	re: No data.		
	Viscosity:	No data.		
9.2	Other Information			
	Percent Volatile:	No data.		
		Section 10. Stability and Reactivity		
10.1	Reactivity:	No data available.		
10.2		Unstable [] Stable [X]		
10.3	Stability Note(s):	Stable if stored in accordance with information listed on the product insert.		
		Will occur [] Will not occur [X]		
10.4	Conditions To Avoid:	heat, sparks, and flame		
10.5	Incompatibility - Materials strong oxidizing agents			
	To Avoid:			
10.6	Hazardous	carbon dioxide		
	Decomposition or	carbon monoxide		
	Byproducts:	phosgene		

Multi-region format



SAFETY DATA SHEET AOCS Canola Oil Fatty Acid Methyl Ester

Standard Mixture

			Section 11. Toxicologic	cal Informat	ion			
11.1 Information on Toxicological Effects:			The toxicological effects of this product have not been thoroughly studied. Dichloromethane - Toxicity Data: Oral TDLO (man): 1429 uL/kg; Oral LD50 (rat): 1600 mg/kg; Intraperitoneal LD50 (rat): 916 mg/kg; Oral LD50 (mouse): 873 mg/kg; Intraperitoneal LD50					
			(mouse): 437 mg/kg; Subcutaneous I		, .	,		
	Chronic	Toxicological	Dichloromethane Investigated as an a			tagen, primary	irritant,	
	Effects:	C C	reproductive effector, and tumorigen.	-				
			Only select Registry of Toxic Effects of	of Chemical Subst	ances (RTE	CS) data is pre	sented here	
			See actual entry in RTECS for comple	ete information.				
			Dichloromethane RTECS Number: PA	\$8050000				
CAS #	E	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
124	-10-7	Tetradecanoic ac	id, Methyl ester	n.a.	n.a.	n.a.	n.a.	
112	-39-0	Hexadecanoic ac	id, Methyl ester	n.a.	n.a.	n.a.	n.a.	
112	-61-8	Octadecanoic ac	d, Methyl ester	n.a.	n.a.	n.a.	n.a.	
112	-62-9	9-Octadecenoic a	acid (Z)-, Methyl ester	n.a.	n.a.	n.a.	n.a.	
112	-63-0	9,12-Octadecadi	enoic acid (Z,Z)-, methyl ester	n.a.	n.a.	n.a.	n.a.	
1120)-28-1	Eicosanoic acid,	methyl ester	n.a.	n.a.	n.a.	n.a.	
301-00-8 Methyl (9Z,12Z,1			5Z) - 9,12,15 - octadecatrienoate	n.a.	n.a.	n.a.	n.a.	
2390)-09-2	methyl cis-icos-1	1-enoate	n.a.	n.a.	n.a.	n.a.	
929-77-1 Docosanoic acid,		Docosanoic acid,	methyl ester	n.a.	n.a.	n.a.	n.a.	
1120)-34-9	13-Docosenoic a	cid, methyl ester, (13Z)-	n.a.	n.a.	n.a.	n.a.	
2442	2-49-1	methyl tetracosa	noate	n.a.	n.a.	n.a.	n.a.	
75-09-2 Dichloromethane		Dichloromethane		Possible	2B	A3	Yes	
		Į	Section 12. Ecologica		- <u></u>	Į	ļ	
2.1	Taviaitu		Avoid release into the environment.		///			
2.1	Toxicity:		Runoff from fire control or dilution wat	er may cause poll	ution			
2.2	Persiste	nce and	No data available.	e				
	Degrada							
2.3	Bioaccu	-	No data available.					
	Potentia	l:						
2.4	Mobility in Soil:		No data available.					
2.5	-		3 No data available.					
	assessment:							
2.6	Other ad	verse effects:	No data available.					
			Section 13. Disposal C	Consideratio	ons			
		isposal Method:	Dispose in accordance with local, stat					
3.1	Waste D		,					

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CHIMICAL

SAFETY DATA SHEET AOCS Canola Oil Fatty Acid Methyl Ester Standard Mixture

Revision: 12/16/2019

аупап	Standard Mixture					
		Section 14. Trans	sport Informa	tion		
14.1 LAND 1	RANSPORT (US DOT)	:				
DOT Prope DOT Hazar UN/NA Nur		Dichloromethane 6.1 POISON UN1593	Packing Gro	up:	111	
		POISON 6				
14.1 LAND 1	RANSPORT (Europea	n ADR/RID):				
ADR/RID Shipping Name:		Dichloromethane				
UN Number:		1593	Packing Gro	up:	III	
Hazard Class:		6.1 - POISON				
14.3 AIR TR	ANSPORT (ICAO/IATA):				
	Shipping Name:	Dichloromethane	_			
UN Numbe		1593	Packing Gro	up:	III	
Hazard Cla		6.1 - POISON				
Additional Tra	-	nsport in accordance with loo en sold in quantities of less t		-	veented Quantity Code of	
information:		E2, E4, or E5, this item mee		-		
		erefore packaging does not h				
		Section 15. Regul	atorv Informa	tion		
EPA SARA (Si	uperfund Amendments	and Reauthorization Act of	•			
CAS #	1	ents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
124-10-7	Tetradecanoic acid, M	· · ·	No	No	No	
112-39-0	Hexadecanoic acid, M	lethyl ester	No	No	No	
112-61-8	Octadecanoic acid, M	ethyl 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	
1120-28-1	Eicosanoic acid, meth	yl ester	No	No	No	
301-00-8	Methyl (9Z,12Z,15Z) -	9,12,15 - octadecatrienoate	No	No	No	
2390-09-2	methyl cis-icos-11-end		No	No	No	
929-77-1	Docosanoic acid, met	hyl ester	No	No	No	
1120-34-9	13-Docosenoic acid, r	nethyl ester, (13Z)-	No	No	No	
2442-49-1	methyl tetracosanoate)	No	No	No	
75-09-2	Dichloromethane		No	Yes 1000 LB	Yes	
CAS #	Hazardous Compon	ents (Chemical Name)	Other US EPA or	State Liete		
124-10-7	Tetradecanoic acid, M	. ,		lo; CWA NPDES:	No: TSCA: Yes -	
		<i>,</i>	Inventory; CA PR		,	
112-39-0	Hexadecanoic acid, M	lethyl ester	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No			
112-61-8	Octadecanoic acid, M	ethyl 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: N	lo; CWA NPDES:	No; TSCA: Yes -	
	1		1			



SAFETY DATA SHEET AOCS Canola Oil Fatty Acid Methyl Ester

Revision: 12/16/2019

),12-Octadecadi	Standa	rd Mixture			
),12-Octadecadie		Inventory; CA PROP.65: No			
		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No			
Eicosanoic acid,	methyl ester	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No			
0-8 Methyl (9Z,12Z,15Z) - 9,12,15 - octadecatrienoate		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No			
0-2 methyl cis-icos-11-enoate		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Docosanoic acid, methyl ester		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No			
13-Docosenoic acid, methyl ester, (13Z)-		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No			
methyl tetracosanoate		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Dichloromethane		CAA HAP,ODC: HAP: VHAP; CWA NPDES: Yes; TSCA: Yes - Inventory, 8A CAIR; CA PROP.65: Yes: Canc.			
mation	This SDS was prepared in accor No.1272/2008. Section 16. Oth	dance with 29 CFR 1910.1200 and Regulation (EC)			
	12/16/2019				
nation About	No data available.				
or Disclaimer:	currently available to us. However express or implied, with respect t	s believed to be accurate and represents the best information er, we make no warranty of merchantability or any other warranty, to such information, and we assume no liability resulting from its wn investigations to determine the suitability of the information for			