

Page: 1 of 6

Product Name: Myristoleic Acid Synonyms: (92)-9-tetradecenoic acid; Myristolenic acid; Oleomyristic acid; Belevant identified uses of the substance or mixture and uses advised against: Elevant identified uses is for research use only, not for human or veterinary use. Details of the Supplier of the Safety Data Sheet: Elevant identified uses: For research use only, not for human or veterinary use. Details of the Supplier of the Safety Data Sheet: Elevant identified uses: For research use only, not for human or veterinary use. Details of the Supplier of the Safety Data Sheet: Edevant identified uses: For research use only, not for human or veterinary use. Details of the Supplier of the Safety Data Sheet: Edevant identified uses: For research use only, not for human or veterinary use. Details of the Supplier of the Safety Data Sheet: Edevant identified uses: For research use only, and the safety Data Sheet: Information: Cayman Chemical Company +1 (734)971-3335 Emergency Elephone number: Emergency Elephone number: +1 (800)424-9300 CheMTREC Outside USA and Canada: +1 (800)424-9300 Skin Corosion/Irritation, Category 2 Skin Corosion/Irritation, Category 3 Skin Corosion/Irritation, Category 3 Eleventie Fdes Maard Phrasese: Edevant induot and vapor	aj	man		Revision: 09/04/2017						
Product Code: 9002461 Product Name: Myistoleic Acid Synonyms: (92)-9-tetradecencic acid: Myristolenic acid: Oleomyristic acid: Relevant identified uses of the substance or mixture and uses advised against: Relevant identified uses: Relevant identified uses: For research use only, not for human or veterinary use. Details of the Supplier of the Safety Data Sheet: Company Name: Cayman Chemical Company 1180 E. Eliseworth Rd. Ann Arbor, MI 48108 Ann Arbor, MI 48108 Web site address: www.caymanchem.com Information: Cayman Chemical Company Information: Cayman Chemical Company +1 (734)971-3335 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: Flammable Liquids, Category 2 Skin Corrosion/Irritation, Category 3 Label Elements: Week Signal Word: Danger GHS Hazard Phrases: Paiox Keap parks/gon flames/hot surfaces) No smoking. Paiox Keap parks		aco	cording to Regulation (EC) No. 1907/2006 as amended by	(EC) No. 1272/2008						
Product Name: Wyristoleic Acid Synoryms: (02)-9-tetradecencic acid; Myristolenic acid; Oleomyristic acid; Relevant identified uses of the substance or mixture and uses advised against: Relevant identified uses: Relevant identified uses: For research use only, not for human or veterinary use. Details of the Supplier of the Safety Data Sheet: Company Name: Cayman Chemical Company. H180 E: Elisworth Rd. Ann Arbor, MI 48108 Hermiter States Stat		Section 1.	Identification of the Substance/Mixture and of the	ne Company/Undertaking						
Relevant identified uses: For research use only, not for human or veterinary use. Details of the Supplier of the Safety Data Sheet: Company Name: Cargmain Chemical Company. H180 E: Elliworth Rd. Ann Arbor, MI 48108 Web site address: www.caymanchem.com Intromation: Cargmain Chemical Company +1 (734)971-3335 Emergency telephone number: Emergency telephone number: Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300 CHEMTREC Outside USA and Canada: +1 (703)527-3887 Scition 2. Hazards Identification CHEMTREC Within USA and Canada: +1 (703)527-3887 Scition of the Substance or Mixture: Rammable Liquids, Category 2 Sin Corrosion/Irritation, Category 3 Shafe Corrosion/Irritation, Category 3 Sale Elements: Sale Elements: Wwww. Baymable liquid and vapor. Hasi's Causes mild skin irritation. H225: Highly flammable liquid and vapor. Hasi's Causes protective clothing/eye protection/face protection. B120: Keep away from (heat/sparks/open flames/hot surfaces) No smoking. Rase varies for NSUN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with varies/hower. P32: Hiskin initiation occurs, get medical advice/attention. Hasi's Start of Norseg and Causes mild skin	.1	Product Name:	Myristoleic Acid	leomyristic acid;						
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Classification of the Substance or Mixture: Flammable Liquids, Category 2 Skin Corrosion/Irritation, Category 3 Label Elements:		Emergency Contact:								
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May be harmful by inhalation, ingestion, or skin absorption. May cause eye or respiratory system irritation.	.3			as and upper respiratory tract						
May cause eye or respiratory system irritation.		Effects and Symptoms:								
				perties have not been thoroughly investigated						

Multi-region format



Multi-region format

CAS # / RTECS # 544-64-9 NA		Hazardous Comp REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification			
		9-Tetradecenoic acid, (9Z)-		1.0 %	208-876-8 NA	Skin Corr. 2: H315 Eye Damage 2: H319 STOT (SE) 3: H335 H336 Flam. Liq. 4: H227			
	-17-5 00000	Ethyl alcohol		99.0 %	200-578-6 603-002-00-5	Flam. Liq. 2: H225			
			Section 4. Fi	rst Aid Meas	ures				
4.1	Descrip	otion of First Aid							
	Measu	res:							
	In Case	e of Inhalation:	Remove to fresh air. If not br Get immediate medical atten		al respiration or gi	ve oxygen by trained personnel			
	In Case	e of Skin Contact:	-			5 minutes. Remove contaminate			
			-	tion if symptoms occur. Wash clothing before reuse.					
	In Case	e of Eye Contact:	Hold eyelids apart and flush and tested by medical person	sh eyes with plenty of water for at least 15 minutes. Have eyes examined sonnel.					
	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 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 Me	asures				
5.1	Suitabl Media:	e Extinguishing	Use alcohol-resistant foam, o Use water spray to cool fire-		•	l spray.			
	Unsuita	able Extinguishing	A solid water stream may be						
5.2	Media:	able Properties an	dCan release vapors that form	a avalasiva mixturas	s at temperatures :	at or above the flashnoint			
5.2	Hazard	-	Container explosion may oc	-	-				
	i land		Emits toxic fumes under fire						
			Sensitive to static discharge.						
			Vapors can travel to a source	e of ignition and flas	sh back.				
			No data available.						
	Flash F	Pt:	14.00 C Method Used: Cl	osed Cup					
	Explos	ive Limits:	LEL: 3.3% at 25.0 C	UEL: 19.0%	6 at 25.0 C				
	Autoig	nition Pt:	363.00 C						
5.3	Fire Fig	ghting Instructions	: As in any fire, wear self-cont		-				
			equivalent), and full protectiv	•	ontact with skin ar	nd eyes.			
			Note: Flammable as diluted	in ethanol.					

Cayman

SAFETY DATA SHEET Myristoleic Acid

Multi-region format

Revision: 09/04/2017

<u> </u>							
		Section	6. Accidental	Release Measures			
6.1	Protective Precautions,	Avoid brea	thing vapors and prov	ide adequate ventilation.			
	Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,						
	Emergency Procedures:	and approp	priate personal protect	tion (rubber boots, safety goggles, and heavy rubb	per gloves).		
6.2	Environmental	Take steps	s to avoid release into	the environment, if safe to do so.			
	Precautions:						
6.3	Methods and Material For	Contain sp	ill and collect, as appr	opriate.			
	Containment and Cleanin	gTransfer to	a chemical waste cor	ntainer for disposal in accordance with local regula	ations.		
	Up:						
		Sec	tion 7. Handli	ing and Storage			
7.1	Precautions To Be Taken	Avoid breat	thing dust/fume/gas/m	ist/vapours/spray.			
	in Handling:	Avoid prolo	onged or repeated expo	osure.			
		Keep away	from sources of ignition	on.			
		Take preca	utionary measures ag	ainst static discharge.			
7.2	Precautions To Be Taken		•	d flame.			
	in Storing:	Keep container tightly closed.					
		Store in accordance with information listed on the product insert.					
	Other Precautions:	Hygroscopi	IC				
	Sect	ion 8. E	Exposure Cont	rols/Personal Protection			
8.1	Exposure Parameters:		•				
CAS #	t Chemical Name	Juri	isdiction	Recommended Exposure Limits	Notations		
64-17	-5 Ethyl alcohol	ACC	GIH TLV	TLV: 1000 ppm STEL: 1000 ppm			
		Fra	nce VL	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm)			
		OSI	HA PELs	PEL: 1000 ppm			
		Brita	ain EH40	TWA: 1920 mg/m3 (1000 ppm)			
	-			STEL: ()			
8.2	Exposure Controls:						
8.2.1	Engineering Controls			haust ventilation, or other engineering controls to	control airborne		
	(Ventilation etc.):		w recommended expo	Sure minus.			
8.2.2	Personal protection equip						
	Eye Protection:	Safety glas					
	Protective Gloves:		e chemical-resistant glo	oves			
	Other Protective Clothing						
	Respiratory Equipment (Specify Type):	NIUSH арр	proved respirator, as co	onaitions warrant.			
	Work/Hygienic/Maintenan	Do not take	internally				
	ce Practices:		-	naterial should be equipped with an eyewash and	a safetv shower		
			bughly after handling.				
		No data av					



Multi-region format

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	Se	ection 9. Physical and Chemical Properties		
).1	Information on Basic Phys	sical and Chemical Properties		
	Physical States:	[]Gas [X]Liquid []Solid		
	Appearance and Odor:	A solution in ethanol		
	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 Hg):	r mm 43 MM_HG at 20.0 C		
	Vapor Density (vs. Air = 1)): No data.		
	Specific Gravity (Water = 7	1): No data.		
	Solubility in Water:	No data.		
	Octanol/Water Partition	No data.		
	Coefficient:			
	Autoignition Pt:	363.00 C		
	Decomposition Temperate	ure: No data.		
	Viscosity:	No data.		
9.2	Other Information			
	Percent Volatile:	No data.		
	Molecular Formula & Weig	ght: C14H26O2 226.4		
		Section 10. Stability and Reactivity		
10.1	Reactivity:	No data available.		
10.2	Stability:	Unstable [] Stable [X]		
0.3	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		
0.5	Incompatibility - Materials	-		
	To Avoid:	ammonia		
		bxides		
		strong oxidizing agents		
	Hazardous	carbon dioxide		
0.6		carbon monoxide		
0.6	Decomposition or	carbon monoxide		



SAFETY DATA SHEET Myristoleic Acid

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				n 11. Toxicolo	<u> </u>				
Carcin		ogical Effects: Toxicological	Ethanol - To (rat): 7,060 (rabbit): 6,30 ppm (30m); (6h); Inhalat Ethanol - Irr Ethanol - Irr Only select See actual e	gical effects of this pro exicity Data: Oral TDLC mg/kg; Oral LD50 (mou 00 mg/kg; Inhalation LC Inhalation TCLO (hum ion LCLO (mouse): 29 itation Data: Eyes (rable vestigated as a mutage Registry of Toxic Effect entry in RTECS for con ECS Number: KQ63000 IARC Monographs?	0 (man): use): 3,4 C50 (rat) an): 2,50 ,300 ppn bit): 500 en, repro ts of Che nplete inf 000	1.14 ml/kg; 50 mg/kg; 20,000 pr 00 mg/m3 (n (7h); mg (24h) r ductive effe emical Sub formation.	; Oral TDLO (i Oral LD50 (mo om (10h); Inha 20m); Inhalati nild; Skin (rab ector, and tum	man): 650 mg/l ouse): 10.5 ml/ alation TCLO (h ion LC50 (rat): bit): 20 mg (24 norigen.	kg; Oral LD50 human): 1,800 5,900 mg/m3 h) moderate;
CAS #		Hazardous Com	ponents (Ch	emical Name)		NTP		ACGIH	OSHA
	-64-9	9-Tetradecenoic				n.a.	n.a.	n.a.	n.a.
-	·17-5	Ethyl alcohol	~~~, (0~)			n.a.	1	A4	n.a.
	17-5								11.a.
			Sect	ion 12. Ecologi	ical In	tormat	ion		
12.1	Toxicity	:	Avoid release into the environment.						
			Runoff from fire control or dilution water may cause pollution.						
12.2	Persiste		No data ava	ilable.					
	Degrada	ability:							
12.3		mulative	No data ava	ilable.					
	Potentia	d:							
12.4	Mobility	in Soil:	No data ava	ilable.					
12.5	Results assessn	of PBT and vPvB nent:	No data ava	ilable.					
12.6	Other ac	verse effects:	No data ava	ilable.					
			Sectio	on 13. Disposa	I Con	siderati	ions		
13.1	Waste D	isposal Method:	Dispose in a	accordance with local, s	state, an	d federal re	egulations.		
			Sec	tion 14. Transp	oort In	format	ion		
14.1	LAND T	RANSPORT (US I	DOT):	•					
DC	OT Prope	r Shipping Name	Ethyl Al	cohol Solution					
DC	OT Hazar	d Class:	3	FLAMMABLE	LIQUID				
U	N/NA Nur	nber:	1170		Pac	king Grou	р:	II	
U			Ethyl Al 1170		Pac	king Grou	p:	II	
									Aulti-region for
									viulti-region to



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14.3 AIR TR									
	ANSPORT (ICAO/	-							
ICAO/IATA Shipping Name:		Ethyl Alcohol Solution							
UN Number:		1170	Packing Grou	-	II				
Hazard Cla		3 - FLAMMABLE LIQUID	IATA Classifi		3				
Additional Tra	Insport	Transport 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 h		-	-				
		Section 15. Regula		-					
EPA SARA (S	uperfund Amendn	nents and Reauthorization Act of	-						
CAS # Hazardous Com		ponents (Chemical Name)	S. 302 (EHS) S. 304 RQ		S. 313 (TRI)				
544-64-9	9-Tetradecenoic	acid, (9Z)-	No	No	No				
64-17-5	Ethyl alcohol		No	No	No				
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or State Lists						
544-64-9	9-Tetradecenoic	· · · ·	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No						
64-17-5	Ethyl alcohol		CAA HAP,ODC: No Inventory; CA PR	C: No; CWA NPDES: No; TSCA: Yes - PROP.65: No					
Regulatory Inf	ormation	This SDS was prepared in accor	I rdance with 29 CFR ²	1910.1200 and R	egulation (EC)				
Statement:		No.1272/2008.							
		Section 16. Oth	er Information	า					
Revision Date:	:	09/04/2017							
Additional Info	ormation About	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.							