

	Section 1. Ic	dentification of the Substance/Mixture and of th	e Company/Undertaking
1	Product Code:	18483	
	Product Name:	12(S)-HETrE	
	Synonyms:	12S-hydroxy-8Z,10E,14Z-eicosatrienoic acid;	
2	Relevant identified uses of	the substance or mixture and uses advised aga	ainst:
	Relevant identified uses:	For research use only, not for human or veterin	nary use.
.3	Details of the Supplier of the	ne Safety Data Sheet:	
	Company Name:	Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	
	Web site address:	www.caymanchem.com	
	Information:	Cayman Chemical Company	+1 (734)971-3335
.4	Emergency telephone num	ber:	
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887
		Section 2. Hazards Identifica	ation
.1	Classification of the Substa	ance or Mixture:	
	Elemmobile Liquide, Cote	20m/ )	
	Flammable Liquids, Cate	gory 2	
.2	Label Elements:		
		_	
	P280: Wear {protective glo	at/sparks/open flames/hot surfaces} No smoking ves/protective clothing/eye protection/face protectio	
	GHS Hazard Phrases: H225: Highly flammable liq GHS Precaution Phrases P210: Keep away from {he P280: Wear {protective glo GHS Response Phrases:	uid and vapor. : at/sparks/open flames/hot surfaces} No smoking ves/protective clothing/eye protection/face protectio	on}.
	GHS Hazard Phrases: H225: Highly flammable liq GHS Precaution Phrases P210: Keep away from {he P280: Wear {protective glo GHS Response Phrases: P303+361+353: IF ON SKI	uid and vapor. : at/sparks/open flames/hot surfaces} No smoking ves/protective clothing/eye protection/face protection IN (or hair): Remove/take off immediately all contar	on}.
	GHS Hazard Phrases: H225: Highly flammable liq GHS Precaution Phrases P210: Keep away from {he P280: Wear {protective glo GHS Response Phrases: P303+361+353: IF ON SKI water/shower. GHS Storage and Dispos	uid and vapor. : at/sparks/open flames/hot surfaces} No smoking ves/protective clothing/eye protection/face protection IN (or hair): Remove/take off immediately all contar	on}. ninated clothing. Rinse skin with
3	<ul> <li>GHS Hazard Phrases:</li> <li>H225: Highly flammable liq</li> <li>GHS Precaution Phrases</li> <li>P210: Keep away from {he</li> <li>P280: Wear {protective glo</li> <li>GHS Response Phrases:</li> <li>P303+361+353: IF ON SKI water/shower.</li> <li>GHS Storage and Dispos</li> <li>Please refer to Section 7 for</li> </ul>	uid and vapor. : at/sparks/open flames/hot surfaces} No smoking ves/protective clothing/eye protection/face protection IN (or hair): Remove/take off immediately all contar al Phrases:	on}. ninated clothing. Rinse skin with
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3	<ul> <li>GHS Hazard Phrases:</li> <li>H225: Highly flammable liq</li> <li>GHS Precaution Phrases</li> <li>P210: Keep away from {he</li> <li>P280: Wear {protective glo</li> <li>GHS Response Phrases:</li> <li>P303+361+353: IF ON SKI water/shower.</li> <li>GHS Storage and Dispos</li> <li>Please refer to Section 7 for</li> <li>Adverse Human Health</li> <li>Effects and Symptoms:</li> </ul>	uid and vapor. at/sparks/open flames/hot surfaces} No smoking ves/protective clothing/eye protection/face protection IN (or hair): Remove/take off immediately all contar <b>al Phrases:</b> or Storage and Section 13 for Disposal information. Material may be irritating to the mucous membrane	on}. ninated clothing. Rinse skin with es and upper respiratory tract. sorption.
2.3	GHS Hazard Phrases: H225: Highly flammable liq GHS Precaution Phrases P210: Keep away from {he P280: Wear {protective glo GHS Response Phrases: P303+361+353: IF ON SKI water/shower. GHS Storage and Dispos Please refer to Section 7 fo Adverse Human Health Effects and Symptoms:	uid and vapor. at/sparks/open flames/hot surfaces} No smoking ves/protective clothing/eye protection/face protection (or hair): Remove/take off immediately all contar <b>al Phrases:</b> or Storage and Section 13 for Disposal information. Material may be irritating to the mucous membrane May be harmful by inhalation, ingestion, or skin abs	on}. ninated clothing. Rinse skin with es and upper respiratory tract. sorption. n.
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Me In In	#       REACH Registra         0-2       12(S)-HETrE         5       Ethyl alcohol         00       Ethyl alcohol         escription of First Aid         leasures:         a Case of Inhalation:         a Case of Skin Contact:         a Case of Eye Contact:	Section 4. Fit Remove to fresh air. If not bre Get immediate medical attent Immediately wash skin with s clothing. Get medical attentio	eathing, give artificia tion. oap and plenty of wa	I respiration or giv	GHS Classification No data available. Flam. Liq. 2: H225 ve oxygen by trained personnel
NA 64-17-5 KQ630000 I.1 De Me In In	5 Ethyl alcohol 00 Endersing States	Remove to fresh air. If not bre Get immediate medical attent Immediately wash skin with s clothing. Get medical attentio	99.5 % rst Aid Measu eathing, give artificia tion. oap and plenty of wa	NA 200-578-6 603-002-00-5 JTES	Flam. Liq. 2: H225
KQ630000	escription of First Aid leasures: Case of Inhalation: Case of Skin Contact:	Remove to fresh air. If not bre Get immediate medical attent Immediately wash skin with s clothing. Get medical attentio	rst Aid Measu eathing, give artificia tion. oap and plenty of wa	I respiration or giv	ve oxygen by trained personnel
Me In In	leasures: Case of Inhalation: Case of Skin Contact: Case of Eye Contact:	Remove to fresh air. If not bre Get immediate medical attent Immediately wash skin with s clothing. Get medical attentio	eathing, give artificia tion. oap and plenty of wa	I respiration or giv	
Me In In	leasures: Case of Inhalation: Case of Skin Contact: Case of Eye Contact:	Remove to fresh air. If not bre Get immediate medical attent Immediately wash skin with s clothing. Get medical attentio	eathing, give artificia tion. oap and plenty of wa	I respiration or giv	
Me In In	leasures: Case of Inhalation: Case of Skin Contact: Case of Eye Contact:	Get immediate medical attent Immediately wash skin with s clothing. Get medical attentio	ion. oap and plenty of wa		
In In In	Case of Inhalation: Case of Skin Contact: Case of Eye Contact:	Get immediate medical attent Immediately wash skin with s clothing. Get medical attentio	ion. oap and plenty of wa		
In In	Case of Skin Contact: Case of Eye Contact:	Get immediate medical attent Immediately wash skin with s clothing. Get medical attentio	ion. oap and plenty of wa		
In	Case of Eye Contact:	clothing. Get medical attentio		ater for at least 15	minuton Domovo contominat
	-	C C	n if symptoms occur		minutes. Remove contaminate
	-	Hold eyelids apart and flush e		. Wash clothing b	efore reuse.
In	0	and tested by medical person		ater for at least 1	5 minutes. Have eyes examine
	Case of Ingestion:	-	-	-	ve anything by mouth to an ng unless directed to do so by
l.2 Im	nnortant Symptoms an	medical personnel. d May cause anemia, cough, C	NS depression drov	vsiness beadach	e heart damage lassitude
	ffects, Both Acute and		-		-
	elayed:	( , , ,			
		Section 5. Fire	Fighting Mea	SUIRES	
5.1 Su	uitable Extinguishing	Use alcohol-resistant foam, c	<u> </u>		sprav.
	ledia:	Use water spray to cool fire-e		, <b>,</b>	
Ur	nsuitable Extinguishin	g A solid water stream may be	inefficient.		
	ledia:				
	lammable Properties a azards:	ndNo data available.			
		No data available.			
Fla	lash Pt:	14.00 C Method Used: Clo	osed Cup		
Ex	xplosive Limits:	LEL: 3.3% at 25.0 C	UEL: 19.0%	at 25.0 C	
Αι	utoignition Pt:	363.00 C			
5.3 Fii	ire Fighting Instruction	s: As in any fire, wear self-conta equivalent), and full protectiv diluted in ethanol.		-	



			Section 6 Ac	cidental Release Me				
6.1	Drate - f							
0.1	Protective Precautions, Avoid raising and breathing dust, and provide adequate ventilation.							
	Protective Equipment and As conditions warrant, wear a NIOSH approved self-con Emergency Procedures: and appropriate personal protection (rubber boots, safet							
_	-	ncy Procedures:				rubber gloves).		
.2	Environ		Take steps to avoid r	elease into the environment, if	safe to do so.			
Precautions:								
5.3		Methods and Material For Contain spill and collect, as appropriate. Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.						
		ment and Cleanin	gTransfer to a chemic	al waste container for disposal	in accordance with local re	egulations.		
	Up:							
			Section 7.	Handling and Stor	age			
7.1 Preca		ions To Be Taken	Avoid breathing dust/	fume/gas/mist/vapours/spray.				
	in Hand	lling:	Avoid prolonged or re	peated exposure.				
			Keep away from sour	ces of ignition.				
			Take precautionary m	neasures against static dischar	ge.			
7.2	Precaut	ions To Be Taken	Keep container tightly					
	in Stori	ng:	Store in accordance v	with information listed on the p	roduct insert.			
	Other P	recautions:	Hygroscopic					
		Sect	tion 8. Exposu	re Controls/Persona	al Protection			
8.1	Exposu	e Parameters:						
CAS	#	Partial Chemical	Name	Britain EH40	France VL	Europe		
727 <sup>-</sup>	10-10-2	12(S)-HETrE		No data.	No data.	No data.		
64	-17-5	Ethyl alcohol		TWA: 1920 mg/m3 (1000 ppm)	TWA: 1900 mg/m3 (1000	No data.		
				STEL: ()	ppm)			
					STEL: 9500 mg/m3 (5000 ppm)			
CAS	#	Partial Chemical	Name	OSHA TWA		Other Limits		
	10-10-2	12(S)-HETrE		No data.	No data.	No data.		
	-17-5	Ethyl alcohol		PEL: 1000 ppm	TLV: 1000 ppm	No data.		
04	11 0				STEL: 1000 ppm			
3.2	Exposu	re Controls:		ļ	ł	-1		
3.2.1	Enginee	ering Controls	Use process enclosu	res, local exhaust ventilation, c	or other engineering control	s to control airborn		
	(Ventila			ended exposure limits.				
3.2.2	Person	al protection equi	oment:					
	Eye Pro	tection:	Safety glasses					
	Protective Gloves: Compatible chemical			resistant gloves				
	Other Protective Clothing:Lab coat							
	•			pirator, as conditions warrant.				
	(Specify Type):							
	Work/Hygienic/Maintenan Do not take internally							
				ilizing this material should be e	equipped with an eyewash a	and a safety show		
			Wash thoroughly afte	-	· · · ·	-		
			No data available.					
						Multi-region for		
						<b>.</b>		



	CHEMICAL	Supersedes Revision: 04/12/201			
	S	ection 9. Physical and Chemical Properties			
<b>9</b> .1	Information on Basic Phys	sical and Chemical Properties			
	Physical States:	[]Gas [X]Liquid []Solid			
	Appearance and Odor:	A solution in ethanol			
	Melting Point:	No data.			
	Boiling Point:	No data.			
	Flash Pt:	14.00 C Method Used: Closed Cup No data. No data available.			
	Evaporation Rate:				
	Flammability (solid, gas):				
	Explosive Limits:	LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C			
	Vapor Pressure (vs. Air o	rrmm 43 MM_HG at 20.0 C			
	Hg):				
	Vapor Density (vs. Air = 1	I): No data.			
	Specific Gravity (Water =	1): No data.			
	Solubility in Water:	No data.			
	Autoignition Pt:	363.00 C			
9.2	Other Information				
5.2		No data.			
	Percent Volatile:				
	Molecular Formula & Wei				
		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, sparks			
10.5	Incompatibility - Materials	<b>s</b> alkali metals			
	To Avoid:	ammonia			
		peroxides			
		strong oxidizing agents			
10.6	Hazardous	carbon dioxide			
	Decomposition or	carbon monoxide			
	Byproducts:				
		Multi-region for			



	HEMICAL					•	
			Section 11. Toxicolo	gical Inform	ation		
11.1	Information on Toxicological Effects: Chronic Toxicological Effects:		The toxicological effects of this pro Ethanol - Toxicity Data: Oral TDLC (rat): 7,060 mg/kg; Oral LD50 (mor (rabbit): 6,300 mg/kg; Inhalation LC ppm (30m); Inhalation TCLO (hum (6h); Inhalation LCLO (mouse): 29 Ethanol - Irritation Data: Eyes (rab Ethanol - Investigated as a mutage Only select Registry of Toxic Effect See actual entry in RTECS for com Ethanol RTECS Number: KQ6300	0 (man): 1.14 ml/kg use): 3,450 mg/kg; C50 (rat): 20,000 p an): 2,500 mg/m3 ,300 ppm (7h); bit): 500 mg (24h) en, reproductive eff ts of Chemical Sut nplete information.	g; Oral TDLO (r Oral LD50 (mo pm (10h); Inha (20m); Inhalati mild; Skin (rab fector, and tum pstances (RTE	man): 650 mg/ł ouse): 10.5 ml/ Ilation TCLO (h on LC50 (rat): bit): 20 mg (24 iorigen.	kg; Oral LD56 human): 1,800 5,900 mg/m3 h) moderate;
CAS	¥	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA
7271	0-10-2	12(S)-HETrE		n.a.	n.a.	n.a.	n.a.
64	-17-5	Ethyl alcohol		n.a.	1	A4	n.a.
		•	Section 12. Ecolog	ical Informat	tion	+	
	Toxicity:		Avoid release into the environmen				
12.1			Runoff from fire control or dilution	water may cause p	ollution.		
	Persister Degrada		Runoff from fire control or dilution	water may cause p	oollution.		
12.2		bility: mulative		water may cause p	pollution.		
12.2 12.3	Degrada Bioaccu	bility: mulative I:	No data available.	water may cause p	pollution.		
12.2 12.3 12.4	Degrada Bioaccur Potentia Mobility	bility: mulative I: in Soil: of PBT and vPvB	No data available. No data available.	water may cause p	pollution.		
12.2 12.3 12.4 12.5	Degrada Bioaccur Potentia Mobility Results assessm	bility: mulative I: in Soil: of PBT and vPvB	No data available. No data available. No data available.	water may cause p	pollution.		
12.2 12.3 12.4 12.5	Degrada Bioaccur Potentia Mobility Results assessm	bility: mulative I: in Soil: of PBT and vPvB tent:	No data available. No data available. No data available. No data available.				
12.2 12.3 12.4 12.5 12.6	Degrada Bioaccur Potentia Mobility Results assessm Other ad	bility: mulative I: in Soil: of PBT and vPvB lent: verse effects:	No data available. No data available. No data available. No data available. No data available.	I Considerat	tions		
12.2 12.3 12.4 12.5 12.6	Degrada Bioaccur Potentia Mobility Results assessm Other ad	bility: mulative I: in Soil: of PBT and vPvB lent: verse effects:	No data available. No data available. No data available. No data available. No data available. <b>Section 13. Disposa</b>	I Considerat	tions regulations.		
12.2 12.3 12.4 12.5 12.6	Degrada Bioaccur Potential Mobility Results of assessm Other ad	bility: mulative I: in Soil: of PBT and vPvB lent: verse effects:	No data available. No data available. No data available. No data available. No data available. <b>Section 13. Disposa</b> Dispose in accordance with local, s <b>Section 14. Transp</b>	I Considerat	tions regulations.		
12.2 12.3 12.4 12.5 12.6 13.1 14.1	Degrada Bioaccur Potential Mobility Results of assessm Other ad Waste Di	bility: mulative I: in Soil: of PBT and vPvB eent: verse effects: isposal Method:	No data available. No data available. No data available. No data available. No data available. Section 13. Disposa Dispose in accordance with local, a Section 14. Transport.	I Considerat	tions regulations.		
12.2 12.3 12.4 12.5 12.6 13.1 14.1 D	Degrada Bioaccur Potential Mobility Results of assessm Other ad Waste Di	bility: mulative l: in Soil: of PBT and vPvB eent: verse effects: isposal Method: RANSPORT (US I	No data available. No data available. No data available. No data available. No data available. Section 13. Disposa Dispose in accordance with local, a Section 14. Transport.	I Considerat state, and federal r port Informat	tions regulations.		
12.2 12.3 12.4 12.5 12.6 13.1 14.1	Degrada Bioaccui Potential Mobility Results assessm Other ad Waste Di LAND T	bility: mulative l: in Soil: of PBT and vPvB nent: verse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class:	No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposa Dispose in accordance with local, s Section 14. Transp DOT): : Ethyl alcohol solution	I Considerat state, and federal r port Informat	tions regulations. tion		
12.2 12.3 12.4 12.5 12.6 13.1 14.1	Degrada Bioaccur Potential Mobility Results of assessm Other ad Waste Di LAND TI OT Proper OT Hazard	bility: mulative l: in Soil: of PBT and vPvB nent: verse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class:	No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposa Dispose in accordance with local, s Section 14. Transp DOT): : Ethyl alcohol solution 3 FLAMMABLE	I Considerat state, and federal r port Informat	tions regulations. tion		
12.2 12.3 12.4 12.5 12.6 13.1 14.1 Di Ul	Degrada Bioaccui Potential Mobility Results of assessm Other ad Waste Di LAND TI OT Proper OT Hazaro N/NA Num	bility: mulative l: in Soil: of PBT and vPvB hent: verse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: hber:	No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposa Dispose in accordance with local, a Section 14. Transp DOT): : Ethyl alcohol solution 3 FLAMMABLE UN1170	I Considerat state, and federal r port Informat	tions regulations. tion		
Dr Dr Ul 14.1 Al	Degrada Bioaccui Potential Mobility Results of assessm Other ad Waste Di LAND TI OT Proper OT Hazaro N/NA Num	bility: mulative l: in Soil: of PBT and vPvB eent: verse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: nber:	No data available. No data available. No data available. No data available. No data available. Section 13. Disposa Dispose in accordance with local, a Dispose in accordance with local, a Section 14. Transp DOT): : Ethyl alcohol solution 3 FLAMMABLE UN1170	I Considerat state, and federal r port Informat	tions regulations. tion		
12.2 12.3 12.4 12.5 12.6 13.1 14.1 Di Ul 14.1	Degrada Bioaccui Potential Mobility Results of assessm Other ad Waste Di LAND TI OT Proper OT Hazaro N/NA Num	bility: mulative l: in Soil: of PBT and vPvB hent: verse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: hber: RANSPORT (Euro hipping Name:	No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposa Dispose in accordance with local, a Section 14. Transp DOT): : Ethyl alcohol solution 3 FLAMMABLE UN1170	I Considerat state, and federal r port Informat	tions regulations. tion	I	



Revision: 06/16/2016 Supersedes Revision: 04/12/2016

#### 14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:	Ethyl alcohol solution					
UN Number:	1170	Packing Group:	II			
Hazard Class:	3 - FLAMMABLE LIQUID	IATA Classification:	3			
Additional Transport	Transport in accordance with loca	al, 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 ha	ve to be labeled as Dangerous Go	ods/Excepted Quantity.			

# Section 15. Regulatory Information

CAS # Hazardous Com		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
72710-10-2 12(S)-HETrE			No	No	No
64-17-5 Ethyl alcohol			No	No	No
CAS # Hazardous Com		ponents (Chemical Name)	Other US EPA or	State Lists	•
72710-10-2	12(S)-HETrE		CAA HAP,ODC: PROP.65: No	No; CWA NPDES:	No; TSCA: No; CA
64-17-5	Ethyl alcohol		CAA HAP,ODC: Inventory; CA PI	No; CWA NPDES: ROP.65: No	No; TSCA: Yes -
Regulatory Inf Statement:	ormation	This SDS was prepared in acco No.1272/2008.	rdance with 29 CFF	8 1910.1200 and R	egulation (EC)
		Section 16. Oth	ner Informatio	on	
Revision Date	:	06/16/2016			
Additional Info This Product:	ormation About	No data available.			
Company Poli	cy or Disclaimer:	DISCLAIMER: This information currently available to us. Howev express or implied, with respect use. Users should make their or their particular purposes.	er, we make no war to such information	ranty of merchanta , and we assume r	bility or any other warranty to liability resulting from its