

KQ6300000

01-2119457610-43

## SAFETY DATA SHEET 12(S)-HEPE

Revision: 09/19/2018 Supersedes Revision: 06/25/2013

	CHEMICAL					Supersedes Revision: 06/25/2013				
		according	to Regulation (EC) No. 1907/2006 as a	amended by (EC) No. 2015/8	30 and US OSHA HCS	2015				
		Section 1. Ic	dentification of the Substar	nce/Mixture and of t	the Company/U	ndertaking				
.1	Produc	t Code:	32550							
	Produc	t Name:	12(S)-HEPE							
	Synony	Synonyms: 12S-hydroxy-5Z,8Z,10E,14Z,17Z-eicosapentaenoic acid;								
.2	Relevant identified uses of the substance or mixture and uses advised against:									
	Relev	ant identified uses:	For research use only, n	ot for human or veter	inary use.					
.3	Details of the Supplier of the Safety Data Sheet:									
	Comp	oany Name:	Cayman Chemical Comp	bany						
			1180 E. Ellsworth Rd.							
			Ann Arbor, MI 48108							
		site address:	www.caymanchem.com		4 (70	1) 074 0005				
		nation:	Cayman Chemical Comp	bany	+1 (73-	4)971-3335				
.4	-	ency telephone num								
	Emer	gency Contact:	CHEMTREC Within USA			0)424-9300				
			CHEMTREC Outside US	A and Canada:	+1 (70	3)527-3887				
			Section 2. Ha	zards Identific	cation					
.1	Classifi	ication of the Substa	ance or Mixture:							
	Flammable Liquids, Category 2									
.2	Label E	lements:								
	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.									
			<b>U</b>	•		niroton (troot				
.3	Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract.									
	<b>Effects and Symptoms:</b> May be harmful by inhalation, ingestion, or skin absorption. May cause eye, skin, or respiratory system irritation.									
						been thoroughly investigated.				
			on 3. Composition		-					
CA 6	#/	1	-	1	-					
	#/ CS#	REACH Registration	onents (Chemical Name)/ on No.	Concentration	EC No./ EC Index No.	GHS Classification				
	80-17-7	12(S)-HEPE		0.01 %	NA	No data available.				
NA					NA					
64	l-17-5	Ethyl alcohol		99.99 %	200-578-6	Flam. Liq. 2: H225				
				1	1	· ·				

Multi-region format

603-002-00-5



Revision: 09/19/2018 Supersedes Revision: 06/25/2013

		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 20 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 20 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	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.						
	Media:	Use water spray to cool fire-exposed containers.						
	Unsuitable Extinguishing Media:	A solid water stream may be inefficient.						
5.2	Flammable Properties and Can 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	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,	Avoid breathing vapors and provide adequate ventilation.						
	Protective Equipment and	As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,						
	Emergency Procedures:	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).						
6.2	Environmental Precautions:	Take steps to avoid release into the environment, if safe to do so.						
6.3		Contain spill and collect, as appropriate. ${f g}$ Transfer to a chemical waste container for disposal in accordance with local regulations.						

Multi-region format



Revision: 09/19/2018 Supersedes Revision: 06/25/2013

	HEMICAL		Supersede	s Revision: 06/25/2013				
		Section 7. H	andling and Storage					
7.1	Precautions To Be Taken	Avoid breathing dust/fume	/gas/mist/vapours/spray.					
	in Handling:	Avoid prolonged or repeat						
		Keep away from sources of	of ignition.					
	Take precautionary measures against static discharge.							
7.2	Precautions To Be Taken	Keep away from heat, spa	irks, and flame.					
	in Storing:	Keep container tightly clos	sed.					
		Store in accordance with in	nformation listed on the product insert.					
	Other Precautions:	Hygroscopic						
	Sect	tion 8. Exposure	Controls/Personal Protection					
8.1	Exposure Parameters:	•						
CAS	_	Jurisdiction	Recommended Exposure Limits	Notations				
64-17	-5 Ethyl alcohol	ACGIH TLV	TLV: 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:			I				
8.2.1	Engineering Controls	Use process enclosures, le	ocal exhaust ventilation, or other engineering cont	trols to control airborr				
	(Ventilation etc.):	levels below recommende	d exposure limits.					
8.2.2	Personal protection equip	oment:						
	Eye Protection: Safety glasses							
	Protective Gloves: Compatible chemical-resistant gloves							
	Other Protective Clothing:Lab coat							
	<b>Respiratory Equipment</b> NIOSH approved respirator, as conditions warrant.							
	(Specify Type):							
	Work/Hygienic/Maintenan	Do not take internally						
	ce Practices:		g this material should be equipped with an eyewa	sh and a safety show				
		/ash thoroughly after handling.						
		No data available.						
		-	I and Chemical Properties					
9.1	Information on Basic Phys	-						
	Physical States:	[ ] Gas [ X ] Li A solution in ethan						
	Appearance and Odor:		8					
	pH: Molting Deint	No data.						
	Melting Point:	No data.						
	Boiling Point:	No data.	Llood: Closed Cup					
	Flash Pt:		Used: Closed Cup					
	Evaporation Rate:	No data.						
	Flammability (solid, gas):							
	Explosive Limits:		at 25.0 C UEL: 19.0% at 25.0 C					
	Vapor Pressure (vs. Air o	rmm 43 MM_HG at	20.0 C					
	Hg):	N NI 17						
	Vapor Density (vs. Air = 1	): No data.						

Multi-region format



Page: 4 of 6

	CHEMICAL						3	uperseues Revis	ion: 06/25/2013	
	Specific	Gravity (Water :	<b>= 1):</b> N	lo data.						
	Solubilit	ty in Water:	N	lo data.						
	Octanol/Water Partition			No data.						
	Coeffici	ent:								
	Autoign	ition Pt:	3	363.00 C						
	Decomp	osition Tempera	ature: N	lo data.						
	Viscosit	y:	N	lo data.						
9.2	Other Inf	ormation								
	Percent	Volatile:	N	lo data.						
	Molecul	ar Formula & We	əight: C	20H30O3	318.5					
			Se	ction 10	. Stability and	d Reactiv	/ity			
10.1	Reactivi	ty:	No data :	available.	-		•			
10.2	Stability	-	Unstable	[] Sta	ble [ X ]					
10.3	Stability	Note(s):	Stable if	stored in acc	cordance with inform	nation listed o	on the product	insert.		
	Polymer	rization:	Will occu	ır[] Wi	ill not occur [ X ]					
10.4	Conditio	ons To Avoid:	heat, flar	nes, and spa	arks					
10.5	Incompa	atibility - Materia								
	To Avoi	-	ammonia							
			peroxides							
			strong ov	kidizing agen	its					
10.6	Hazardo	ous	carbon dioxide							
	Decomp	osition or	carbon m	nonoxide						
	Byprodu	ucts:								
			Sec	tion 11.	Toxicologica	I Informa	ation			
11.1	Informa	tion on	The toxic	ological effe	ects of this product h	ave not been	thoroughly st	udied.		
	Toxicolo	ogical Effects:	Ethanol -	anol - Toxicity Data: Oral TDLO (man): 1.14 ml/kg; Oral TDLO (man): 650 mg/kg; Oral LD50						
			(rat): 7,06	): 7,060 mg/kg; Oral LD50 (mouse): 3,450 mg/kg; Oral LD50 (mouse): 10.5 ml/kg; Oral LD50						
			(rabbit): 6	3,300 mg/kg	; Inhalation LC50 (ra	at): 20,000 pp	om (10h); Inha	lation TCLO (h	uman): 1,800	
				m (30m); Inhalation TCLO (human): 2,500 mg/m3 (20m); Inhalation LC50 (rat): 5,900 mg/m3						
				h); Inhalation LCLO (mouse): 29,300 ppm (7h);						
				thanol - Irritation Data: Eyes (rabbit): 500 mg (24h) mild; Skin (rabbit): 20 mg (24h) moderate;						
		Toxicological		Ethanol - Investigated as a drug, mutagen, natural product, primary irritant, reproductive effector,						
	Effects:			and tumorigen.						
Carcinogenicity:		-		Dnly select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.						
				See actual entry in RTECS for complete information. Ethanol RTECS Number: KQ6300000						
		NTP? No IARC Monographs? No OSHA Regulated? No								
		-								
CAS	#	Hazardous Cor	nponents (	Chemical N	lame)	NTP	IARC	ACGIH	OSHA	
116180-17-7		12(S)-HEPE				n.a.	n.a.	n.a.	n.a.	
64	4-17-5	Ethyl alcohol				n.a.	1	A4	n.a.	
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Revision: 09/19/2018 Supersedes Revision: 06/25/2013

				Supersec	des Revision: 06/25/2013				
		Section 12. Ecolo	gical Informat	ion					
2.1 Toxicity	/:	Avoid release into the environme	ent.						
		Runoff from fire control or dilution	n water may cause p	ollution.					
2.2 Persiste	ence and	No data available.							
Degrada	ability:								
2.3 Bioaccu	umulative	No data available.							
Potentia	al:								
2.4 Mobility	/ in Soil:	No data available.							
2.5 Results	of PBT and vPvB	No data available.							
assessment:									
2.6 Other a	dverse effects: No data available.								
		Section 13. Dispos	al Considerat	ions					
3.1 Waste D	Disposal Method:	Dispose in accordance with loca	I, state, and federal r	egulations.					
		Section 14. Trans	sport Informat	ion					
14.1 LAND	RANSPORT (US	DOT):							
DOT Prope	er Shipping Name	Ethyl Alcohol Solution							
DOT Hazaı	rd Class:	3 FLAMMAB	LE LIQUID						
UN/NA Nu	mber:	UN1170	Packing Grou	ıp:	II				
	FRANSPORT (Euro Shipping Name:								
	Shipping Name:	Ethyl Alcohol Solution							
UN Numbe			Packing Grou	ip:	II				
Hazard Cla		3 - FLAMMABLE LIQUID							
	ANSPORT (ICAO/	•							
	Shipping Name:	Ethyl Alcohol Solution 1170	Deaking Crou		ш				
Hazard Cla		3 - FLAMMABLE LIQUID	Packing Grou IATA Classifi	-	 3				
		Transport in accordance with lo			5				
Additional Tra	nsport	When sold in quantities of less t			oted Quantity Code of				
mormation.		E1, E2, E4, or E5, this item mee	-	-					
		Therefore packaging does not h							
		Section 15. Regul	atory Information	tion					
EPA SARA (Si	uperfund Amendn	nents and Reauthorization Act of	of 1986) Lists						
CAS #	Hazardous Components (Chemical Name)		S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)				
116180-17-7	12(S)-HEPE		No	No	No				
64-17-5	Ethyl alcohol		No	No	No				
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or State Lists						
116180-17-7	12(S)-HEPE		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No						
64-17-5 Ethyl alcohol			CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes -						
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					Multi-region for				



Page: 6 of 6

Revision: 09/19/2018 Supersedes Revision: 06/25/2013

CHEMICAL	Inventory; CA PROP.65: No					
Regulatory Information Statement:	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.					
	Section 16. Other Information					
Revision Date:	09/19/2018					
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.					