

KQ6300000

01-2119457610-43

SAFETY DATA SHEET 5(S)-HEPE

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

	CHEMICAL								
			g to Regulation (EC) No. 1907/2006 as a						
		Section 1. I	dentification of the Substar	nce/Mixture and of t	he Company/Ur	ndertaking			
1.1	Product	Code:	32210						
	Product I	Name:	5(S)-HEPE						
	Synonym	is:	5S-hydroxy-6E,8Z,11Z,1	4Z,17Z-eicosapentae	enoic acid;				
1.2	Relevant	identified uses of	the substance or mixture a	and uses advised ag	gainst:				
	Relevar	nt identified uses:	For research use only, no	ot for human or veteri	inary use.				
1.3	Details of	f the Supplier of t	he Safety Data Sheet:						
	Compa	ny Name:	Cayman Chemical Comp	pany					
			1180 E. Ellsworth Rd.						
			Ann Arbor, MI 48108						
		e address:	www.caymanchem.com		4 (70				
	Informa		Cayman Chemical Comp	bany	+1 (734	4)971-3335			
1.4	-	cy telephone num							
	Emerge	ency Contact:	CHEMTREC Within USA			0)424-9300			
			CHEMTREC Outside US	A and Canada:	+1 (70	3)527-3887			
			Section 2. Haz	zards Identific	ation				
2.1	Classifica	ation of the Subst	ance or Mixture:						
	Flamm	able Liquids, Cate	egory 2						
2.2	Label Ele	ements:							
	GHS Si	gnal Word:	Danger						
		azard Phrases:	Danger						
		lighly flammable light	ruid 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:								
	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:								
			or Storage and Section 13 for	Disposal information).				
2.3	Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract.								
		and Symptoms:	May be harmful by inhalation			,, ,			
		•	May cause eye, skin, or resp	-	-				
			To the best of our knowledge	e, the toxicological pro	operties have not	been thoroughly investigated.			
		Secti	on 3. Composition	/Information c	on Ingredie	nts			
CAS	#/		onents (Chemical Name)/	Concentration	EC No./	GHS Classification			
		REACH Registrati			EC Index No.				
9200		5(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			
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Multi-region format

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		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 an	dCan 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



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		ξ	Section 7. Han	dling and Storage			
7.1	Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray.						
	in Handling:	Avoid p	prolonged or repeated	exposure.			
	-	Keep a	away from sources of ig	inition.			
		Take p	recautionary measures	s against static discharge.			
.2	Precautions To Be Taken	Keep a	away from heat, sparks	, and flame.			
	in Storing:	Кеер с	container tightly closed.				
	-	Store in	n accordance with infor	rmation listed on the product insert.			
	Other Precautions:	Hygros	scopic				
	Sect	ion 8	Exposure Co	ontrols/Personal Protection			
8.1	Exposure Parameters:						
CAS #	# Chemical Name		Jurisdiction	Recommended Exposure Limits	Notations		
64-17	-5 Ethyl alcohol		ACGIH TLV	TLV: 1000 ppm			
		F	France VL	TWA: 1900 mg/m3 (1000 ppm)			
		l		STEL: 9500 mg/m3 (5000 ppm)			
			OSHA PELs	PEL: 1000 ppm			
			Britain EH40	TWA: 1920 mg/m3 (1000 ppm) STEL: ()			
3.2	Exposure Controls:	I					
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3.2.1	Engineering Controls	Use pro	ocess enclosures, loca	I exhaust ventilation, or other engineering co	ontrols to control airbo		
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Multi-region format



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Solubility in Water: No data. Octano/Water Partition No data. Coefficient: 363.00 C Decomposition Temperature: No data. Viscosity: No data. 92.0 Other Information Percent Volatile: Percent Volatile: No data. Molecular Formula & Weight: C20H3003 Stability: Unstable [] Orditions To Avoid: heat, flames, and sparks 10.4 Conditions To Avoid: heat, flames, and sparks 10.5 Incompatibility - Materials alkali metals To Avoid: To Avoid: ammonia percoxides strong oxidizing agents Carbon dioxide Decomposition or Decomposition or Carbon dioxide Decomposition or Carbon monxide Byproducts: Ethanol - Toxicol		- I. /III -					3	uperseues Revis	1011. 00/25/2013
Octano/Water Partition No data. Coefficiene: No data. Autoignition Pt: S63.00 C Decomposition Temperature: No data. Viscosity: No data. Percent Volatile: No data. Molecular Formula & Weight: C20H3003 318.5 Section 10. Stability and Reactivity 10.1 Reactivity: No data available. 10.2 Stability: Unstable [] 10.3 Stability: Unstable [] 10.4 Conditions To Avoid: heat, flames, and sparks 10.5 Incompatibility - Materials alkali metals reaction dioxide peroxides strong oxidizing agents strong oxidizing agents 10.6 Hazardous carbon dioxide Decomposition or carbon dioxide carbon dioxide Byproducts: Ethanol - Toxicity Data: Oral TDLO (man): 1.14 mKg: Oral TDLO (man): 650 mg/kg; Oral LDE (rab): 6.500 mg/kg; Oral LDE (rab): 6.500 mg/kg; Oral LDE (rab): 6.500 mg/kg; Oral LDE (rab): 0.500 mg/kg; Oral LDE (rab	-		= 1):						
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Decomposition Temperature: No data. Viscosity: No data. 92.0 Other Information Percent Volatile: No data. Molecular Formula & Weight: C20H3003 318.5 Section 10. Stability and Reactivity 10.1 Reactivity: No data available. Section 10. Stability and Reactivity Instable [] Stable [X] Stability Note(s): Stable [X] Stability Note(s): Stable [X] Incompatibility - Materials alkali metals To Avoid: ammonia peroxides Section 11. Toxicological Information Toxicological effects of this product have not been thoroughly studied. Toxicological effects of this product have not been thoroughly studied. Toxicological effects of this product have not been thoroughly studied. Toxicological effects of this product have not been thoroughly studied. Toxicological Effects: Ethanol - Toxicity Date: Oral TDLO (man): 1.14 m/kg; Oral TDLO (man): 650 mg/kg; Oral LDD (rah): 7.060 mg/kg; Oral LDD (rah): 1.14 m/kg; Oral TDLO (man): 650 rg/kg; Oral LD (rah): 7.060 mg/kg; Oral LD (man): 2.500 mg/m (20m). Inhalation LC O (human): 2.500 mg/m (20m). I									
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9.2 Other Information Percent Volatile: No data. Molecular Formula & Weight: C20H3003 318.5 Section 10. Stability and Reactivity 10.1 Reactivity: No data available. 10.2 Stability: Unstable [] Stable [X] 10.3 Stability Note(s): Stable is 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 10.5 Incompatibility - Materiats alkali metals rot Avoid: ammonia peroxides strong oxidizing agents strong oxidizing agents strong oxidizing agents 10.6 Hazardous carbon dioxide peroxides strong oxidizing agents strong oxidizing agents 10.6 Hazardous carbon monoxide peroxides strong oxidizing agents strong oxidizing agents 11.1 Information on The toxicological effects: Ethanol - Toxicity Data: Oral TDLO (man): 1.14 ml/kg; Oral TDLO (man): 650 mg/kg; Oral LD0 (rabi): 6.00 mg/kg; Inhalation TCLO (human): 2.300 mg/mg (200); Inhalat	Decomp	osition Tempera	ature:						
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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, and sparks 10.5 Incompatibility - Materials alkali metals ammonia To Avoid: ammonia peroxides strong oxidizing agents carbon dioxide strong oxidizing agents Optimization or Section 11. Toxicological Information Toxicological Effects: Toxicological effects of this product have not been thoroughly studied. Toxicological Effects: Effects: Toxicological Effects: Chronic Toxicological Of many Rig: Oral LD5 (mouse): 29,300 ppm (10h); Inhalation CL50 (rat): 5,900 mg/re (6h); Inhalation D26 (rau): 2,900 ppm (7h); Effects: Chronic Toxicological Effects: Chronic Toxicological <t< th=""><th>Percent</th><th>Volatile:</th><th></th><th>No data.</th><th></th><th></th><th></th><th></th><th></th></t<>	Percent	Volatile:		No data.					
10.1 Reactivity: No data available. 10.2 Stability: Unstable [] Stable [X] 10.3 Stability: Unstable [] Stable [X] 10.3 Stability: 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 10.5 Incompatibility - Materials alkali metals To Avoid: ammonia peroxides To Avoid: ammonia carbon dioxide carbon dioxide carbon dioxide Decomposition or Byproducts: Section 11. Toxicological Information The toxicological effects of this product have not been thoroughly studied. 11.1 Information on Toxicity Data: Oral DDL (man): 1.14 ml/kg; Oral DDD (mau): 650 mg/kg; Oral LDG (rab): 6,300 mg/kg; Oral LD50 (mouse): 3,450 mg/kg; Oral LD50 (mouse): 10.5 ml/kg; Oral LD (rab): 6,300 mg/kg; Oral LD50 (mouse): 20,300 pm (10h); Inhalation TCL0 (human): 1,8 pp m (30m); Inhalation TCL0 (human): 2,500 mg/m (20m); Inhalation LC50 (rat): 5,900 mg/m (0h); Inhalation LC50 (rat): 5,900 mg/m (0h); Inhalation LC50 (rat): 5,900 mg/m (0h); Inhalation LC50 (rat): 5,900 mg/m (2h) mild; Skin (rabbit): 20 mg (24h) moderate and tumorigen. Chronic Toxicological Effects: and Inhalation LCL0 (mouse): 29,300 pm (7h); Ethanol - Investigated as a drug, mutagen, natural product, primary irritant, reproductiv	Molecul	ar Formula & We	eight:	C20H30O3	318.5				
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, and sparks 10.5 Incompatibility - Materials alkali metals To Avoid: ammonia peroxides strong oxidizing agents 10.6 Hazardous carbon dioxide Decomposition or Byproducts: Section 11. Toxicological Information 11.1 Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied. 11.1 Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied. 11.1 Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied. 11.2 Information on Toxicological Effects: The toxicological effects of Chan(): 1.14 m/kg; Oral LDD (man): 650 mg/kg; Oral LD (rabit): 6.300 mg/kg; Inhalation LC50 (rat): 2.0,000 ppm (10h); Inhalation CE0 (nauna): 1.8 ppm (30m); Inhalation TCLO (human): 2.500 mg/m3 (20m); Inhalation CE0 (rat): 5.900 mg/m (6h); Inhalation TCLO (mouse): 29,300 ppm (7h); Ethanol - Investigated as a drug, mutagen, natural product, primary irritant, reproductive effect and tumorigen. Only select Registry of Toxic Effects of Chemical			S	ection 10.	. Stability an	d Reactiv	/ity		
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Polymerization: Will occur [] Will not occur [X] 10.4 Conditions To Avoid: heat, flames, and sparks 10.5 Incompatibility - Materials alkali metals To Avoid: ammonia peroxides strong oxidizing agents 10.6 Hazardous Decomposition or Byproducts: carbon dioxide Section 11. Toxicological Information 11.1 Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied. 11.1 Information on Toxicological Effects: Ethanol - Toxicity Data: Oral TDLO (man): 1.14 ml/kg; Oral LDD (man): 650 mg/kg; Oral LD (rabbit): 6,300 mg/kg; Oral LD50 (mouse): 3,450 mg/kg; Oral LD50 (mouse): 1.0.5 ml/kg; Oral LD (rabbit): 6,300 mg/kg; Inhalation LC50 (rat): 20,000 ppm (10h); Inhalation TCLO (human): 1,8 ppm (30m); Inhalation TCLO (human): 2,500 mg/m3 (20m); Inhalation LC50 (rat): 5,900 mg/m (6h); Inhalation LCLO (mouse): 29,300 ppm (7h); Ethanol - Investigated as a drug, mutagen, natural product, primary irritant, reproductive effect and tumorigen. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented her See actual entry in RTECS for complete information. Ethanol RTECS Number: KQ6300000 Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA 92008-51-0 5(S)-HEPE	Stability	<i>'</i> :	Unstat	ole [] Stal	ble [X]				
10.4 Conditions To Avoid: heat, flames, and sparks 10.5 Incompatibility - Materials alkali metals To Avoid: ammonia peroxides strong oxidizing agents 10.6 Hazardous carbon dioxide carbon monoxide Byproducts: Section 11. Toxicological Information 11.1 Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied. Ethanol - Toxicity Data: Oral TDLO (man): 1.14 ml/kg; Oral TDLO (man): 650 mg/kg; Oral LDD (rabit): 6,300 mg/kg; Oral LD50 (mouse): 3,450 mg/kg; Oral LD50 (mouse): 10.5 ml/kg; Oral LD (rabit): 6,300 mg/kg; Inhalation LC50 (rat): 20,000 ppm (10h); Inhalation TCLO (human): 1,8 ppm (30m); Inhalation TCLO (human): 2,500 mg/m3 (20m); Inhalation LC50 (rat): 5,900 mg/n (6h); Inhalation LCLO (mouse): 29,300 ppm (7h); Ethanol - Irritation Data: Eyes (rabit): 500 mg (24h) mid; Skin (rabbit): 20 mg (24h) moderate tethanol - Irritation Data: Eyes of Chemical Substances (RTECS) data is presented her See actual entry in RTECS for complete information. Ethanol RTECS Number: KQ6300000 Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA 0.a. 92008-51-0 5(S)-HEPE n.a. n.a. n.a. n.a. n.a.	Stability	v Note(s):	Stable	if stored in acc	ordance with inform	nation listed o	on the product	insert.	
10.5 Incompatibility - Materials alkali metals	Polymer	rization:	Will oc	cur[] Wi	ll not occur [X]				
To Avoid: ammonia peroxides strong oxidizing agents 10.6 Hazardous Decomposition or Byproducts: carbon dioxide carbon monoxide 11.1 Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied. 11.1 Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied. 11.1 Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied. 11.1 Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied. 11.1 Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied. 11.2 Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied. 11.1 Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied. 11.2 Information on (rabit): 6,300 mg/kg; Oral LD50 (mouse): 3,450 mg/kg; Oral LD50 (mouse): 10.5 ml/kg; Oral LD (rabit): 6,300 mg/kg; Inhalation LC50 (rat): 20,000 ppm (10h); Inhalation LC50 (rat): 5,900 mg/m (6h); Inhalation LCLO (mouse): 29,300 ppm (7h); Ethanol - Investigated as a drug, mutagen, natural product, primary irritant, reproductive effect and tumorigen. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data	Conditio	ons To Avoid:	heat, fl	lames, and spa	irks				
intervalues in peroxides strong oxidizing agents carbon dioxide carbon monoxide Decomposition or carbon monoxide Byproducts: Section 11. Toxicological Information The toxicological effects of this product have not been thoroughly studied. Ethanol - Toxicological effects: Toxicological effects: Cratbon monoxide in the toxicological effects: Ethanol - Investigated as a drug, mutagen, natural product, primary irritant, reproductive effect and tumorigen. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented her See actual entry in RTECS for complete information. Ethanol - Investigated as a drug, mutagen, natural product, primary irritant, reproductive effect and tumorigen. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented her See actual entry in RTECS for complete information. Ethanol - Investigated as a drug, mutagen, natural product, primary irritant, reproductive effect and tumorigen. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented her See actual entry in RTECS for complete information. Ethanol - Investigated as a drug, mutagen, natural product, primary irritant, reproductive effect and tumorigen. Only select Registry of Toxic Effects of Chemical Substances (R	Incompa	atibility - Materia	ı ls alkali r	netals					
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10.6 Hazardous Decomposition or Byproducts: carbon dioxide carbon monoxide Section 11. Toxicological Information The toxicological effects of this product have not been thoroughly studied. The toxicological effects of this product have not been thoroughly studied. Toxicological Effects: The toxicological effects of this product have not been thoroughly studied. Toxicological Effects: The toxicological effects of this product have not been thoroughly studied. Toxicological Effects: The toxicological effects of this product have not been thoroughly studied. Toxicological Effects: The toxicological effects of this product have not been thoroughly studied. Toxicological Effects: The toxicological effects of ration 20 (mause): 3,450 mg/kg; Oral LD50 (mouse): 10.5 ml/kg; Oral LD (rabbit): 6,300 mg/kg; Inhalation LC50 (rat): 20,000 ppm (10h); Inhalation TCLO (human): 1,8 ppm (30m); Inhalation TCLO (human): 2,500 mg/m3 (20m); Inhalation LC50 (rat): 5,900 mg/m (6h); Inhalation LCL0 (mouse): 29,300 ppm (7h); Ethanol - Investigated as a drug, mutagen, natural product, primary irritant, reproductive effect and tumorigen. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented her See actual entry in RTECS for complete information.			peroxic	des					
Decomposition or Byproducts: carbon monoxide Section 11. Toxicological Information The toxicological effects of this product have not been thoroughly studied. The toxicological effects of this product have not been thoroughly studied. Toxicological Effects: The toxicological effects of this product have not been thoroughly studied. The toxicological effects: The toxicological effects of this product have not been thoroughly studied. Toxicological Effects: The toxicological effects of this product have not been thoroughly studied. (rat): 7,060 mg/kg; Oral LD50 (monse): 3,450 mg/kg; Oral LD50 (monse): 10.5 ml/kg; Oral LD (rab): 6,300 mg/kg; Oral LD50 (mouse): 3,450 mg/m3 (20m); Inhalation TCLO (human): 1,8 ppm (30m); Inhalation TCLO (human): 2,500 mg/m3 (20m); Inhalation LC50 (rat): 5,900 mg/m (6h); Inhalation LCLO (mouse): 29,300 ppm (7h); Ethanol - Irritation Data: Eyes (rabbit): 500 mg (24h) mild; Skin (rabbit): 20 mg (24h) moderatu Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented her See actual entry in RTECS for complete information. Ethanol - Investigated as a drug, mutagen, natural product, primary irritant, reproductive effect and tumorigen. Only select Registry of Toxic Effects of Chemical S			strong	oxidizing agen	ts				
Byproducts: Section 11. Toxicological Information The toxicological effects of this product have not been thoroughly studied. Toxicological Effects: Toxicological Effects: Ethanol - Toxicity Data: Oral TDLO (man): 1.14 ml/kg; Oral LD50 (mouse): 10.5 ml/kg; Oral LD5 (rat): 7,060 mg/kg; Oral LD50 (mouse): 3,450 mg/kg; Oral LD50 (mouse): 10.5 ml/kg; Oral LD (rabbit): 6,300 mg/kg; Oral LD50 (mouse): 3,450 mg/kg; Oral LD50 (mouse): 10.5 ml/kg; Oral LD (rabbit): 6,300 mg/kg; Inhalation LC50 (rat): 20,000 ppm (10h); Inhalation TCLO (human): 1,8 ppm (30m); Inhalation LCLO (mouse): 29,300 ppm (7h); Ethanol - Irritation Data: Eyes (rabbit): 500 mg (24h) mild; Skin (rabbit): 20 mg (24h) moderatu ethanol - Investigated as a drug, mutagen, natural product, primary irritant, reproductive effect and tumorigen. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented her See actual entry in RTECS for complete information. Ethanol RTECS Number: KQ6300000 Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No OSHA Mazardous Components (Chemical Name) NTP IARC ACGIH OSHA 92008-51-0 5(S)-HEPE n.a. n.a. n.a. n.a. n.a.	Hazardo	bus							
Section 11. Toxicological Information Section 11. Toxicological Information Toxicological Effects: The toxicological effects of this product have not been thoroughly studied. Toxicological Effects: The toxicological effects of this product have not been thoroughly studied. Toxicological Effects: The toxicological effects of this product have not been thoroughly studied. Toxicological Effects: The toxicological effects of this product have not been thoroughly studied. Toxicological Effects: Toxicological Effects: Toxicological Effects: Toxicological Effects: Toxicological Effects: The toxicological effects of this product have not been thoroughly studied. (rat): 7,060 mg/kg; Oral LD50 (mouse): 3,450 mg/kg; Oral LD50 (mouse): 10.5 ml/kg; Oral LD (rabbit): 6,300 mg/kg; Inhalation LC50 (rat): 20,000 ppm (10h); Inhalation TCLO (human): 1,8 ppm (30m); Inhalation LCLO (mouse): 29,300 ppm (7h); Ethanol - Irritation Data: Eyes (rabbit): 500 mg (24h) mild; Skin (rabbit): 20 mg (24h) moderate Chronic Toxicological Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented herrisee actual entry in RTECS for complete	-		carbon	1 monoxide					
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Toxicological Effects: Ethanol - Toxicity Data: Oral TDLO (man): 1.14 ml/kg; Oral TDLO (man): 650 mg/kg; Oral LD2 (rat): 7,060 mg/kg; Oral LD50 (mouse): 3,450 mg/kg; Oral LD50 (mouse): 10.5 ml/kg; Oral LD (rabbit): 6,300 mg/kg; Inhalation LC50 (rat): 20,000 ppm (10h); Inhalation TCLO (human): 1,8 ppm (30m); Inhalation TCLO (human): 2,500 mg/m3 (20m); Inhalation LC50 (rat): 5,900 mg/m (6h); Inhalation LCL0 (mouse): 29,300 ppm (7h); Ethanol - Irritation Data: Eyes (rabbit): 500 mg (24h) mild; Skin (rabbit): 20 mg (24h) moderate Effects: Chronic Toxicological Ethanol - Investigated as a drug, mutagen, natural product, primary irritant, reproductive effect and tumorigen. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented her See actual entry in RTECS for complete information. Ethanol RTECS Number: KQ6300000 Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No CAS # Hazardous Components (Chemical Name) 92008-51-0 5(S)-HEPE			Se	ction 11.	Toxicologica	l Informa	ation		
(rat): 7,060 mg/kg; Oral LD50 (mouse): 3,450 mg/kg; Oral LD50 (mouse): 10.5 ml/kg; Oral LD (rabit): 6,300 mg/kg; Inhalation LC50 (rat): 20,000 ppm (10h); Inhalation TCLO (human): 1,8 ppm (30m); Inhalation TCLO (human): 2,500 mg/m3 (20m); Inhalation LC50 (rat): 5,900 mg/m (6h); Inhalation LCLO (mouse): 29,300 ppm (7h); Ethanol - Irritation Data: Eyes (rabbit): 500 mg (24h) mild; Skin (rabbit): 20 mg (24h) moderate Effects: Ethanol - Investigated as a drug, mutagen, natural product, primary irritant, reproductive effect and tumorigen. Only 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 Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA 92008-51-0 5(S)-HEPE n.a. n.a. n.a. n.a. n.a.	Information	tion on	The to:	xicological effe	cts of this product h	nave not been	thoroughly st	tudied.	
(rabbit): 6,300 mg/kg; Inhalation LC50 (rat): 20,000 ppm (10h); Inhalation TCLO (human): 1,8 ppm (30m); Inhalation TCLO (human): 2,500 mg/m3 (20m); Inhalation LC50 (rat): 5,900 mg/m (6h); Inhalation LCLO (mouse): 29,300 ppm (7h); Ethanol - Irritation Data: Eyes (rabbit): 500 mg (24h) mild; Skin (rabbit): 20 mg (24h) moderate Effects: and tumorigen. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented her See actual entry in RTECS for complete information. Ethanol RTECS Number: KQ6300000 Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No CAS # Hazardous Components (Chemical Name) NTP 92008-51-0 5(S)-HEPE n.a. n.a. n.a.	Toxicolo	ogical Effects:	Ethanc	ol - Toxicity Dat	a: Oral TDLO (mar	n): 1.14 ml/kg;	Oral TDLO (I	man): 650 mg/ł	kg; Oral LD50
ppm (30m); Inhalation TCLO (human): 2,500 mg/m3 (20m); Inhalation LC50 (rat): 5,900 mg/m (6h); Inhalation LCLO (mouse): 29,300 ppm (7h); Ethanol - Irritation Data: Eyes (rabbit): 500 mg (24h) mild; Skin (rabbit): 20 mg (24h) moderate Chronic Toxicological Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented her See actual entry in RTECS for complete information. Ethanol RTECS Number: KQ6300000 Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No CAS # Hazardous Components (Chemical Name) 92008-51-0 5(S)-HEPE								-	-
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Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA 92008-51-0 5(S)-HEPE n.a. n.a. n.a. n.a. n.a.						internation.			
CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA 92008-51-0 5(S)-HEPE n.a. n.a. n.a. n.a. n.a.	ogenicity	v:				OSHA Re	aulated? No		
92008-51-0 5(S)-HEPE n.a. n.a. n.a. n.a. n.a.		1			•		1	ACGIH	OSHA
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9200		Solubili Octanol Coeffici Autoign Decomp Viscosit Other Int Percent Molecul Reactivi Stability Stability Stability Polyme Conditio Incomp To Avoi Hazardo Decomp Byprodu	Specific Gravity (Water : Solubility in Water: Octanol/Water Partition Coefficient: Autoignition Pt: Decomposition Tempera Viscosity: Other Information Percent Volatile: Molecular Formula & Water Stability: Stability: Stability Note(s): Polymerization: Conditions To Avoid: Incompatibility - Materia To Avoid: Hazardous Decomposition or Byproducts: Information on Toxicological Effects:	Specific Gravity (Water = 1): Solubility in Water: Octanol/Water Partition Coefficient: Autoignition Pt: Decomposition Temperature: Viscosity: Other Information Percent Volatile: Molecular Formula & Weight: Stability: Unstat Stability Note(s): Stable Polymerization: Will oct Conditions To Avoid: heat, fill Incompatibility - Materials alkali r To Avoid: ammoni percomposition or carbor Byproducts: See Information on The to Toxicological Effects: Ethano (fah); Ir Ethano (fah); Ir Ethano Autor of the to Only s See ad Effects:	Specific Gravity (Water = 1): No data. Solubility in Water: No data. Octanol/Water Partition No data. Coefficient: 363.00 C Autoignition Pt: 363.00 C Decomposition Temperature: No data. Viscosity: No data. Other Information No data. Percent Volatile: No data. Molecular Formula & Weight: C20H30O3 Stability: Unstable. Stability: Unstable. Stability: Unstable. Polymerization: Will occur [] Viscosity: No data. Polymerization: Will occur [] Vill occur [] Will Conditions To Avoid: heat, flames, and spatisticating agen Incompatibility - Materials ammonia peroxides strong oxidizing agen Hazardous carbon dioxide Decomposition or Carbon dioxide Byproducts: Ethanol - Toxicity Data (rat): 7,060 mg/kg; Or (rat): 7,060 mg/kg; Or (rat): 7,060 mg/kg; Or (rat): 7,060 mg/kg; Or (and umorigen. <td>Specific Gravity (Water = 1): No data. Solubility in Water: No data. Octanol/Water Partition No data. Coefficient: 363.00 C Autoignition Pt: 363.00 C Decomposition Temperature: No data. Viscosity: No data. Other Information No data. 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Multi-region format



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

CHIMICAL				Superse	des Revision: 06/25/2013	
		Section 12. Ecolo	gical Informat	ion		
12.1 Toxicity	/:	Avoid release into the environm	ent.			
		Runoff from fire control or dilution	on water may cause p	ollution.		
	ence and	No data available.				
Degrad	-					
	umulative	No data available.				
Potentia						
-	/ in Soil:	No data available.				
		No data available.				
assessi						
2.6 Other a	dverse effects:	No data available.				
		Section 13. Dispos				
3.1 Waste I	Disposal Method:	Dispose in accordance with loca	al, state, and federal r	egulations.		
		Section 14. Tran	sport Informat	ion		
14.1 LAND	TRANSPORT (US	DOT):				
DOT Prope	er Shipping Name	Ethyl Alcohol Solution				
DOT Haza	rd Class:	3 FLAMMAB	LE LIQUID			
UN/NA Nu	mber:	1170	Packing Grou	ıp:	II	
	TRANSPORT (Eur Shipping Name:					
	Shipping Name:	Ethyl Alcohol Solution				
UN Numbe	er:	1170Packing Group:II				
Hazard Cla	ass:	3 - FLAMMABLE LIQUID				
14.3 AIR TR	ANSPORT (ICAO/	IATA):				
ICAO/IATA	A Shipping Name:	Ethyl Alcohol Solution				
UN Numbe		1170	Packing Grou	-	II	
Hazard Cla	ass:	3 - FLAMMABLE LIQUID	IATA Classifi	cation:	3	
Additional Tra	insport	Transport in accordance with lo		•		
nformation:		When sold in quantities of less	•			
		E1, E2, E4, or E5, this item mee Therefore packaging does not h				
		Section 15. Regul		-	-	
EPA SARA (S	uperfund Amendn	nents and Reauthorization Act	•			
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
92008-51-0	5(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			
92008-51-0	5(S)-HEPE	-	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
64-17-5	Ethyl alcohol		CAA HAP,ODC: N	o; CWA NPDES: No	; TSCA: Yes -	
	I i		I			
					Multi-region for	



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	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.					