

Revision: 01/15/2019 Supersedes Revision: 06/17/2013

	accord	ing to Regulation (EC) No. 1907/2006 as a	imended by (EC) No. 2015/8	30 and US OSHA HCS	2015				
	Section 1.	Identification of the Substan	nce/Mixture and of t	the Company/U	ndertaking				
1.1	Product Code: 35370								
	Product Name:	8(S),15(S)-DiHETE							
	Synonyms:								
.2	Relevant identified uses	of the substance or mixture a	and uses advised ag	gainst:					
	Relevant identified uses: For research use only, not for human or veterinary use.								
.3	Details of the Supplier of the 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 Comp	bany	+1 (73-	4)971-3335				
.4	Emergency telephone nu	mber:							
	Emergency Contact:	CHEMTREC Within USA	and Canada:	+1 (80	0)424-9300				
		CHEMTREC Outside US	A and Canada:	+1 (70	3)527-3887				
		Section 2. Haz	zards Identific	cation					
.1	Classification of the Sub	stance or Mixture:							
	Flammable Liquids, Ca	tegory 2							
2.2	Label Elements:								
	GHS Signal Word: Danger GHS Hazard Phrases: H225: Highly flammable liquid and vapor.								
	GHS Precaution Phrase	es:	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}.								
	P280: Wear {protective g			•					
	GHS Response Phrase	loves/protective clothing/eye p	rotection/face protec	tion}.					
	GHS Response Phrase P303+361+353: IF ON S	loves/protective clothing/eye p	rotection/face protec	tion}.	. Rinse skin with				
	GHS Response Phrase P303+361+353: IF ON S water/shower.	loves/protective clothing/eye p s: sKIN (or hair): Remove/take off	rotection/face protec	tion}.	. Rinse skin with				
	GHS Response Phrase P303+361+353: IF ON S water/shower. GHS Storage and Dispo	loves/protective clothing/eye p s: KIN (or hair): Remove/take off osal Phrases:	rotection/face protect	tion}.	. Rinse skin with				
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.3	GHS Response Phrase P303+361+353: IF ON S water/shower. GHS Storage and Dispo Please refer to Section 7 Adverse Human Health	loves/protective clothing/eye p s: KIN (or hair): Remove/take off <b>osal Phrases:</b> for Storage and Section 13 for Material may be irritating to t	rotection/face protect immediately all conta Disposal information he mucous membrar	tion}. aminated clothing n. nes and upper res					
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	GHS Response Phrase P303+361+353: IF ON S water/shower. GHS Storage and Dispo Please refer to Section 7 Adverse Human Health Effects and Symptoms: Sec	loves/protective clothing/eye p s: sKIN (or hair): Remove/take off osal Phrases: for Storage and Section 13 for Material may be irritating to the May be harmful by inhalation May cause eye, skin, or resp To the best of our knowledge	rotection/face protect immediately all conta Disposal information he mucous membrar i, ingestion, or skin al iratory system irritation e, the toxicological pr	tion}. aminated clothing n. nes and upper res bsorption. on. operties have not	piratory tract. been thoroughly investigated.				
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CAS RTE 802: NA 64	GHS Response Phrase P303+361+353: IF ON S water/shower. GHS Storage and Dispon Please refer to Section 7 Adverse Human Health Effects and Symptoms: Sec # / Hazardous Com CS # REACH Registra	s: SKIN (or hair): Remove/take off Sal Phrases: for Storage and Section 13 for Material may be irritating to th May be harmful by inhalation May cause eye, skin, or resp To the best of our knowledge tion 3. Composition ponents (Chemical Name)/ ation No.	rotection/face protect immediately all conta Disposal information he mucous membrar in ingestion, or skin al iratory system irritation a, the toxicological pr /Information ( Concentration	tion}. aminated clothing n. hes and upper res bsorption. on. operties have not <b>ON INGREDIE</b> EC No./ EC Index No. NA	piratory tract. been thoroughly investigated. <b>NtS</b> <b>GHS Classification</b>				

Multi-region format



Revision: 01/15/2019 Supersedes Revision: 06/17/2013

		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			
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	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	d 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	Methods and Material For Contain spill and collect, as appropriate.				
	Containment and Cleanin	${f g}$ Transfer to a chemical waste container for disposal in accordance with local regulations.			
	Up:				



Revision: 01/15/2019 Supersedes Revision: 06/17/2013

		Section 7. Ha	andling and Storage					
7.1	Precautions To Be Taker	Avoid breathing dust/fume	/gas/mist/vapours/spray.					
	in Handling:	Avoid prolonged or repeated exposure.						
		Keep away from sources of	Keep away from sources of ignition.					
		Take precautionary measures against static discharge.						
7.2	Precautions To Be Taken Keep away from heat, sparks, and flame.							
	in Storing:	Keep container tightly closed.						
	-	Store in accordance with information listed on the product insert.						
	Other Precautions:	Hygroscopic						
		Light sensitive						
		Oxygen sensitive						
	Sec	tion 8. Exposure (	Controls/Personal Protection					
8.1	Exposure Parameters:							
CAS	# Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations				
64-17	7-5 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					

#### 8.2 Exposure Controls:

 8.2.1 Engineering Controls
 Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne

 (Ventilation etc.):
 levels below recommended exposure limits.

STEL: ()

TWA: 1920 mg/m3 (1000 ppm)

#### 8.2.2 Personal protection equipment:

**Eye Protection:** Safety glasses

Protective Gloves: Compatible chemical-resistant gloves

Other Protective Clothing: Lab coat

**Respiratory Equipment** NIOSH approved respirator, as conditions warrant.

Britain EH40

(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 shower.Wash thoroughly after handling.

No data available.



Multi-region format

Revision: 01/15/2019 Supersedes Revision: 06/17/2013

		Supersedes Revision: 06/17/201			
	S	Section 9. Physical and Chemical Properties			
).1	Information on Basic Physical 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):				
	Explosive Limits:	LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C			
	Vapor Pressure (vs. Air o Hg):	or mm 43 MM_HG at 20.0 C			
	Vapor Density (vs. Air = 1	1): No data.			
	Specific Gravity (Water =	<b>1):</b> No data.			
	Solubility in Water:	No data.			
	Octanol/Water Partition	No data.			
	Coefficient:				
	Autoignition Pt:	363.00 C			
	Decomposition Temperat	ture: No data.			
	Viscosity:	No data.			
).2	Other Information				
	Percent Volatile:	No data.			
	Molecular Formula & Wei	ight: C20H32O4 336.5			
		Section 10. Stability and Reactivity			
10.1	Reactivity:	No data available.			
0.2	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 ]			
0.4	Conditions To Avoid:	heat, flames, and sparks			
0.5	Incompatibility - Materials alkali metals				
	To Avoid:	ammonia			
		peroxides			
		strong oxidizing agents			
	Hazardous	carbon dioxide			
0.6		carbon monoxide			
10.6	Decomposition or				



Multi-region format

Revision: 01/15/2019 Supersedes Revision: 06/17/2013

	HIMICAL				Su	persedes Revis	sion: 06/17/2013
			Section 11. Toxicologic	al Informa	tion		
11.1	Information on Toxicological Effects: Chronic Toxicological Effects:		Section 11. Toxicological Information         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 LD50 (rat): 7,060 mg/kg; Oral LD50 (mouse): 3,450 mg/kg; Oral LD50 (mouse): 10.5 ml/kg; Oral LD50 (rabbit): 6,300 mg/kg; Inhalation LC50 (rat): 20,000 ppm (10h); Inhalation TCLO (human): 1,800 ppm (30m); Inhalation TCLO (human): 2,500 mg/m3 (20m); Inhalation LC50 (rat): 5,900 mg/m3 (6h); Inhalation LCLO (mouse): 29,300 ppm (7h);         Ethanol - Irritation Data: Eyes (rabbit): 500 mg (24h) mild; Skin (rabbit): 20 mg (24h) moderate;         Ethanol - Investigated as a drug, mutagen, natural product, primary irritant, reproductive effector, 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				
	nogenicit	-	NTP? No IARC Monographs? No OSHA Regulated? No				
CAS			ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA
	34-65-7	8(S),15(S)-DiHET	E	n.a.	n.a.	n.a.	n.a.
64	-17-5	Ethyl alcohol		n.a.	1	A4	n.a.
			Section 12. Ecologica	l Informati	on		
12.2 12.3 12.4 12.5 12.6	Degrada Bioaccu Potentia Mobility Results assess Other a	umulative al: v in Soil: of PBT and vPvB ment: dverse effects:	Runoff from fire control or dilution water No data available. No data available. No data available. No data available. No data available. <b>Section 13. Disposal C</b> Dispose in accordance with local, state	onsiderati	ons		
			Section 14. Transpor	t Informati	on		
D			DOT): Ethyl Alcohol Solution 3 FLAMMABLE LIQ			II	
14.1	LAND T	RANSPORT (Euro	opean ADR/RID):				
U		hipping Name: er:	Ethyl Alcohol Solution	Packing Group	):	II	
						-	Aulti nonion (



Revision: 01/15/2019 Supersedes Revision: 06/17/2013

#### 14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Ethyl Alcohol Solution **UN Number:** 1170 Packing Group: Ш IATA Classification: Hazard Class: 3 - FLAMMABLE LIQUID 3 Additional Transport 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 have to be labeled as Dangerous Goods/Excepted Quantity. Section 15. Regulatory Information EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) 80234-65-7 8(S),15(S)-DiHETE No No No 64-17-5 Ethyl alcohol No No No CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists 80234-65-7 8(S),15(S)-DiHETE CAA HAP, ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No 64-17-5 CAA HAP, ODC: No; CWA NPDES: No; TSCA: Yes -Ethyl alcohol Inventory; CA PROP.65: No **Regulatory Information** This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008. Statement: Section 16. Other Information **Revision Date:** 01/15/2019 No data available. Additional Information About 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.

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