

## Safety Data Sheet

acc. to OSHA HCS

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## **1** Identification · Product identifier • Trade name: (±)17(18)-DiHETE · Synonym 17,18-dihydroxy-5Z,8Z,11Z,14Z-eicosatetraenoic acid · Article number: 10006999 · Application of the substance / the mixture This product is for research use - Not for human or veterinary diagnostic or therapeutic use. · Details of the supplier of the safety data sheet Manufacturer/Supplier: Cayman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA · Information department: Product safety department · Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970 2 Hazard(s) identification Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 H225 Highly flammable liquid and vapor. GHS07 Eye Irritation 2A H319 Causes serious eye irritation. · Label elements · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS02 GHS07 · Signal word Danger (Contd. on page 2)

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• Other ingredients (±)17(18)-DiHETE Revision date 09/21/2023

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<ul> <li>Hazard statem</li> </ul>	ients	
	mmable liquid and vapor.	
	serious eye irritation.	
<ul> <li>Precautionary</li> </ul>		
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking	<b>]</b> .
P233	Keep container tightly closed.	
P240	Ground/bond container and receiving equipment.	
P241	Use explosion-proof electrical/ventilating/lighting/equipment.	
P242	Use only non-sparking tools.	
P243	Take precautionary measures against static discharge.	
P264	Wash thoroughly after handling.	
P280	Wear protective gloves/protective clothing/eye protection/face protection	tion.
P303+P361+P3	353 If on skin (or hair): Take off immediately all contaminated clothing. water/shower.	Rinse skin with
P305+P351+P3	338 If in eyes: Rinse cautiously with water for several minutes. Remove c	ontact lenses, if
	present and easy to do. Continue rinsing.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P370+P378	In case of fire: Use CO2, powder or water spray to extinguish.	
P403+P235	Store in a well-ventilated place. Keep cool.	
P501	Dispose of contents/container in accordance with local/regional/natio regulations.	nal/international
<ul> <li>Classification</li> </ul>	system:	
· NFPA ratings (		
Fi	ealth = 2 re = 3 eactivity = 0	
· HMIS-ratings (	(scale 0 - 4)	
FIRE 3 F	Health = 2 Fire = 3 Reactivity = 0	
<ul> <li>Other hazards</li> </ul>		
· Results of PB	T and vPvB assessment	
· PBT: Not applie	cable.	
• vPvB: Not appl		
3 Composition	n/information on ingredients	
	racterization: Mixtures lixture of the substances listed below with nonhazardous additions.	
· Dangerous co	mponents:	
CAS: 64-17-5 RTECS: KQ630	ethanol 00000	99.99%

0.01%

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**4 First-aid measures** 

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

### **5 Fire-fighting measures**

- · Extinguishing media
- Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

### 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  Wear protective equipment. Keep unprotected persons away.
   Environmental precautions:
  Dilute with plenty of water.
  Do not allow to enter sewers/ surface or ground water.
   Methods and material for containment and cleaning up:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Dispose contaminated material as waste according to section 13.
- Ensure adequate ventilation. • Reference to other sections See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.
- Protective Action Criteria for Chemicals

· PAC-1:	
64-17-5 ethanol	1,800 ppm
· PAC-2:	
64-17-5 ethanol	3300* ppm
· PAC-3:	
64-17-5 ethanol	15000* ppm

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### 7 Handling and storage

#### · Handling:

- · Precautions for safe handling
- No special precautions are necessary if used correctly.
- Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure.
- Keep away from sources of ignition.
- Take precautionary measures against static discharge.re.
- Information about protection against explosions and fires:
- Keep ignition sources away Do not smoke.
- Protect against electrostatic charges.
- · Conditions for safe storage, including any incompatibilities
- Storage: Store in accordance with information listed on the product insert.
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:
- Keep receptacle tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see section 7.

Control parameters

 $\cdot$  Components with limit values that require monitoring at the workplace:

#### 64-17-5 ethanol

PEL Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm

- REL Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm
- TLV Short-term value: 1000 ppm A3

· Additional information: The lists that were valid during the creation were used as basis.

- · Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin.

- · Breathing equipment: Not required.
- · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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(Contd. from page 4) Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

## • **Penetration time of glove material** The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

## **9** Physical and chemical properties

Information on basic physical and o	chemical properties
<ul> <li>General Information</li> <li>Appearance: <ul> <li>Form:</li> <li>Color:</li> </ul> </li> <li>Odor:</li> <li>Structural Formula</li> <li>Molecular Weight</li> <li>Odor threshold:</li> <li>Formulation</li> </ul>	Liquid According to product specification Alcohol-like C20H32O4 336.5 g/mol Not determined. A solution in ethanol
· pH-value:	Not determined.
<ul> <li>Change in condition</li> <li>Melting point/Melting range:</li> <li>Boiling point/Boiling range:</li> </ul>	-114 °C (-173.2 °F) 78 °C (172.4 °F)
· Flash point:	13 °C (55.4 °F)
· Flammability (solid, gaseous):	Highly flammable.
· Auto igniting:	425 °C (797 °F)
· Decomposition temperature:	Not determined.
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.
· Explosion limits: Lower: Upper:	3.3 Vol % 19 Vol %
<ul> <li>Vapor pressure at 20 °C (68 °F):</li> <li>Vapor pressure at 50 °C (122 °F):</li> </ul>	59 hPa (44.3 mm Hg) 280 hPa (210 mm Hg)
<ul> <li>Density at 20 °C (68 °F):</li> <li>Relative density</li> </ul>	0.79 g/cm³ (6.59255 lbs/gal) Not determined.
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<ul> <li>Vapor density</li> <li>Evaporation rate</li> </ul>	Not determined. Not determined.
<ul> <li>Solubility in / Miscibility with Water at 20 °C (68 °F):</li> </ul>	1,000 g/l
· Partition coefficient (n-octanol/wa	ater): Not determined.
<ul> <li>Viscosity:</li> <li>Dynamic at 20 °C (68 °F):</li> <li>Kinematic:</li> <li>SOLUBILITY</li> </ul>	1.2 mPas Not determined. DMF: 30 mg/ml; DMSO: 30 mg/ml; Ethanol: 30 mg/ml; PBS (pH 7.2): .5 mg/ml
<ul> <li>Solvent content: Organic solvents: VOC content:</li> </ul>	100.0 % 99.99 % 999.9 g/l / 8.34 lb/gal
Solids content:	0.0 %
· Other information	No further relevant information available.

## **10 Stability and reactivity**

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: strong oxidizing agents
- · Hazardous decomposition products: carbon dioxide, carbon monoxide

## **11 Toxicological information**

- · Information on toxicological effects
- Acute toxicity:

### · LD/LC50 values that are relevant for classification:

64-17-5	ethanol
Oral	LD50

	LD50	10,470 mg/kg (rat) OECD Test Guideline 401
		OECD Test Guideline 401
lative	LC50/4 h	117–125 mg/l (rat)

## Inhalative LC50/4 h 117–125 mg/l (ra OECD 403 (rat)

### Primary irritant effect:

- on the skin: No irritant effect.
- · on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

#### Irritant

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- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

64-17-5 ethanol

· NTP (National Toxicology Program)

None of the ingredients is listed.

#### OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

## **12 Ecological information**

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:

· General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

## **13 Disposal considerations**

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number	
DOT, IMDG, IATA	UN1170
UN proper shipping name	
DOT	Ethanol solutions
IMDG	ETHANOL SOLUTION (ETHYL ALCOHO
	SOLUTION)
ΙΑΤΑ	Ethanol solution

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Transport hazard class(es)	
DOT	
RAMMABLE LOUD	
Class	3 Flammable liquids
	3
IMDG, IATA	
Class Label	3 Flammable liquids
	3
Packing group DOT, IMDG, IATA	11
Environmental hazards:	Not applicable.
Special precautions for user Hazard identification number (Kemler code)	Warning: Flammable liquids : 33
EMS Number:	F-E,S-D
Stowage Category	A
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
IMDO	
IMDG Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
IATA	
Remarks:	When sold in quantities of less than or equal to 1 m or 1 g, with an Excepted Quantity Code of
	E1, E2, E4, or E5, this item meets the De Minin
	Quantities exemption, per IATA 2.6.10.
	Therefore packaging does not have to be labeled
	Dangerous Goods/Excepted Quantity.
UN "Model Regulation":	UN 1170 ETHANOL SOLUTION (ETHYL ALCOHO
	SOLUTION), 3, II

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Sara Section 355 (extremely hazardous substances): None of the ingredients is listed. Section 313 (Specific toxic chemical listings): None of the ingredients is listed. TSCA (Toxic Substances Control Act): 64-17-5 ethanol ACTIVE Hazardous Air Pollutants None of the ingredients is listed. Proposition 65 Chemicals known to cause cancer: None of the ingredients is listed. Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. Chemicals known to cause developmental toxicity: 64-17-5 ethanol Carcinogenic categories EPA (Environmental Protection Agency) None of the ingredients is listed. TLV (Threshold Limit Value)	<ul> <li>Safety, health and environmental regulations/legislation specific for the s No further relevant information available.</li> </ul>	substance or mixture
Section 313 (Specific toxic chemical listings):         None of the ingredients is listed.         TSCA (Toxic Substances Control Act):         64-17-5   ethanol         Hazardous Air Pollutants         None of the ingredients is listed.         Proposition 65         Chemicals known to cause cancer:         None of the ingredients is listed.         • Chemicals known to cause reproductive toxicity for females:         None of the ingredients is listed.         • Chemicals known to cause reproductive toxicity for males:         None of the ingredients is listed.         • Chemicals known to cause developmental toxicity:         64-17-5   ethanol         • Carcinogenic categories         • EPA (Environmental Protection Agency)         None of the ingredients is listed.         • TLV (Threshold Limit Value)         64-17-5   ethanol         • NIOSH-Ca (National Institute for Occupational Safety and Health)		
Section 313 (Specific toxic chemical listings):         None of the ingredients is listed.         TSCA (Toxic Substances Control Act):         64-17-5   ethanol         Hazardous Air Pollutants         None of the ingredients is listed.         Proposition 65         Chemicals known to cause cancer:         None of the ingredients is listed.         • Chemicals known to cause reproductive toxicity for females:         None of the ingredients is listed.         • Chemicals known to cause reproductive toxicity for males:         None of the ingredients is listed.         • Chemicals known to cause developmental toxicity:         64-17-5   ethanol         • Carcinogenic categories         • EPA (Environmental Protection Agency)         None of the ingredients is listed.         • TLV (Threshold Limit Value)         64-17-5   ethanol         • NIOSH-Ca (National Institute for Occupational Safety and Health)	Section 355 (extremely hazardous substances):	
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TSCA (Toxic Substances Control Act):       ACTIVE         64-17-5       ethanol       ACTIVE         Hazardous Air Pollutants       None of the ingredients is listed.       Proposition 65         Proposition 65       Chemicals known to cause cancer:       None of the ingredients is listed.         None of the ingredients is listed.       Chemicals known to cause reproductive toxicity for females:       None of the ingredients is listed.         Chemicals known to cause reproductive toxicity for males:       None of the ingredients is listed.       Chemicals known to cause developmental toxicity:         64-17-5       ethanol       Carcinogenic categories       EPA (Environmental Protection Agency)         None of the ingredients is listed.       TLV (Threshold Limit Value)       Attraction (Attraction	Section 313 (Specific toxic chemical listings):	
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64-17-5       ethanol         • Carcinogenic categories       •         • EPA (Environmental Protection Agency)       •         None of the ingredients is listed.       •         • TLV (Threshold Limit Value)       •         64-17-5       ethanol       A:         • NIOSH-Ca (National Institute for Occupational Safety and Health)       •	None of the ingredients is listed.	
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64-17-5 ethanol A: • NIOSH-Ca (National Institute for Occupational Safety and Health)	None of the ingredients is listed.	
· NIOSH-Ca (National Institute for Occupational Safety and Health)	TLV (Threshold Limit Value)	
	64-17-5 ethanol	A
	NIOSH-Ca (National Institute for Occupational Safety and Health)	

## **16 Other information**

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

- · Department issuing SDS: Environment protection department.
- · Contact: -
- Date of preparation / last revision 09/21/2023
- **Abbreviations and acronyms:** IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation

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IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent D50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Flammable Liquids 2: Flammable liquids – Category 2 Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A • * Data compared to the previous version altered.	(Contd. from page 9)
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