

Page: 1

Revision: 04/05/2013 Supercedes Revision: 10/06/2010

Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108



1. Identification of the Substance/Mixture and of the Company/Undertaking

Product Code: 10007250

Product Name: 12(S)-HHTrE Lipid Maps MS Standard

Synonyms: 12S-hydroxy-5Z,8E,10E-heptadecatrienoic acid; 12-HHT;

Intended Use: For research use only, not for human or veterinary use.

Manufacturer Information

Company Name: Cayman Chemical Company

Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300 **Alternate Emergency Contact:** CHEMTREC Outside USA and Canada: +1 (703)527-3887

Information: Cayman Chemical Company +1 (734)971-3335

Web site address: www.caymanchem.com

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GHS Classification	Placard	Key word	GHS Hazard
Flammable Liquids, Category 2	Flame	Danger	Highly flammable liquid and vapor

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/clothing and eye/face protection as specified by the

manufacturer/supplier or the competent authority.

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.

Route(s) of Entry: Inhalation? Yes Skin? Yes Eyes? Yes Ingestion? Yes Other: Injection

Potential Health Effects (Acute and Chronic): Causes eye, skin, or respiratory system irritation.

Material is irritating to the mucous membranes and upper respiratory tract.

May be harmful by inhalation, ingestion, or skin absorption.

Target Organs: Central nervous system, Blood, Eyes, Reproductive system, Heart, Respiratory system, Liver,

LD 50 / LC 50: Please refer to Section 11.

Signs and Symptoms Of Exposure: Irritating to eyes, skin, nose; may cause anemia, cough, CNS depression, drowsiness, headache,

heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects,

teratogenic effects.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Medical Conditions Generally Aggravated By No data available.

Exposure:

3. Composition/Information on Ingredients						
Hazardous Components (Chemical Name)	CAS#	Concentration	EC#	Risk Phrases	RTECS #	
1. 12(S)-HHTrE	54397-84-1	0.01 %	NA	No phrases apply.	NA	
2. Ethyl alcohol	64-17-5	99.99 %	200-578-6	R11	KQ6300000	



Page: 2

Revision: 04/05/2013 Supercedes Revision: 10/06/2010

4. First Aid Measures

Emergency and First Aid Procedures:

Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained In Case of Inhalation:

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.

Indication of any immediate medical attention and special treatment needed: No data available.

5. Fire Fighting Measures

Suitable Extinguishing Media: Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing Media: A solid water stream may be inefficient.

Flammable Properties and Hazards: Can release vapors that form explosive mixtures at temperatures at or above the flashpoint.

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.

Flash Pt: 14.00 C Method Used: Closed Cup

Autoignition Pt: 363.00 C

Explosive Limits: LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C

Hazardous Combustion Products: No data available.

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.

Accidental Release Measures

Protective Precautions, Protective

Avoid breathing vapors and provide adequate ventilation.

Equipment and Emergency Procedures: As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,

and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

Environmental Precautions: Take steps to avoid release into the environment, if safe to do so.

Steps To Be Taken In Case Material Is

Released Or Spilled:

Contain spill and collect, as appropriate.

Transfer to a chemical waste container for disposal in accordance with local regulations.

7. Handling and Storage

Precautions To Be Taken in Handling: 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.

Precautions To Be Taken in Storing: Keep away from heat, sparks, and flame.

Keep container tightly closed.

Store in accordance with information listed on the product insert.



Page: 3

Revision: 04/05/2013 Supercedes Revision: 10/06/2010

Other Precautions: Hygroscopic.

Hazard Label Information:

Avoid contact with skin and eyes. Do not reuse this container. Use with adequate ventilation.

Wash thoroughly after handling.

8. Exposure Controls/Personal Protection						
Hazardous Components (Chemical Name) CAS # OSHA PEL ACGIH TLV Other Lim						
1. 12(S)-HHTrE	54397-84-1	No data.	No data.	No data.		
2. Ethyl alcohol	64-17-5	1000 ppm	1000 ppm	No data.		
Hazardous Components (Chemical Name)	CAS#	Britain EH40	France VL	Europe		
1. 12(S)-HHTrE	54397-84-1	No data.	No data.	No data.		
2. Ethyl alcohol	64-17-5	TWA: 1920 mg/m3 (1000 ppm)	TWA: 1900 mg/m3 (1000	No data.		
		STEL: ()	ppm)			

Protective Equipment Summary - Hazard

Label Information:

STEL: 9500 mg/m3 (5000

glasses Safety shower in work area Vent Hood

Engineering Controls (Ventilation etc.):

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

levels below recommended exposure limits.

Eye Protection: Safety glasses

Protective Gloves: Compatible chemical-resistant gloves

Other Protective Clothing:

Respiratory Equipment (Specify Type): NIOSH approved respirator, as conditions warrant.

Work/Hygienic/Maintenance Practices: Do not take internally.

Facilities storing or utilizing this material should be equipped with an eyewash and a safety

Wash thoroughly after handling.

Environmental Exposure Controls: No data available.

Physical and Chemical Properties

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Physical States: [] Gas [X] Liquid [] Solid

Appearance and Odor: Solution **Melting Point:** No data. **Boiling Point:** No data.

Flash Pt: 14.00 C Method Used: Closed Cup

Evaporation Rate: No data.

Explosive Limits: LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C

Vapor Pressure (vs. Air or mm Hg): 43 MM HG at 20.0 C

Vapor Density (vs. Air = 1): No data. Specific Gravity (Water = 1): No data. Solubility in Water: No data. **Autoignition Pt:** 363.00 C

Explosive Properties: No data available. **Oxidizing Properties:** No data available.

Other Information

Percent Volatile: No data.



UN/NA Number:

SAFETY DATA SHEET 12(S)-HHTrE Lipid Maps MS Standard

Page: 4

Revision: 04/05/2013

Supercedes Revision: 10/06/2010

C17H28O3 Formula: Molecular Weight: 280.40 10. Stability and Reactivity Reactivity: No data available. Stability: Unstable [] Stable [X] Stability Note(s): Stable if stored in accordance with information listed on the product insert. **Conditions To Avoid:** heat, flames and sparks Polymerization: Will occur [] Will not occur [X] Incompatibility - Materials To Avoid: alkali metals ammonia peroxides strong oxidizing agents **Hazardous Decomposition Or Byproducts:** carbon dioxide carbon monoxide 11. Toxicological Information **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; **Chronic Toxicological Effects:** Ethanol - Investigated as a mutagen, 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 **Hazardous Components (Chemical Name)** CAS# NTP **IARC ACGIH OSHA** 1. 12(S)-HHTrE 54397-84-1 n.a. n.a. n.a. n.a. 2. Ethyl alcohol 64-17-5 n.a. Α4 n.a. Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No Ecological Information **General Ecological Information:** Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 13. Disposal Considerations **Waste Disposal Method:** Dispose in accordance with local, state, and federal regulations. 14. Transport Information Globally Harmonized System of Classification and Labelling Flammable Liquids, Category 2 - Danger! Highly flammable liquid and vapor LAND TRANSPORT (US DOT) **DOT Proper Shipping Name** Ethyl Alcohol Solution **DOT Hazard Class: DOT Hazard Label:** FLAMMABLE LIQUID

1170



Page: 5

Revision: 04/05/2013 Supercedes Revision: 10/06/2010

Packing Group:

LAND TRANSPORT (European ADR/RID)

ADR/RID Shipping Name Ethyl Alcohol Solution

UN Number: 1170

Hazard Class: 3 - FLAMMABLE LIQUID

Packing Group: II

ADR Classification: 3

AIR TRANSPORT (ICAO/IATA)

ICAO/IATA Shipping Name Ethyl Alcohol Solution

UN Number: 1170

Hazard Class: 3 - FLAMMABLE LIQUID

Packing Group:

Additional Transport Information: Transport in accordance with local, state, and federal regulations.

15. Regulatory Information

European Community Hazard Symbol codes F: Highly Flammable

European Community Risk and Safety Phrases

R11 - Highly flammable.

S7 - Keep container tightly closed.
S16 - Keep away from sources of ignition.

S24/25 - Avoid contact with skin and eyes.

S33 - Take precautionary measures against static discharges.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

US EPA SARA Title III

Hazardous Components (Chemical Name)	CAS#	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. 12(S)-HHTrE	54397-84-1	No	No	No	No
2. Ethyl alcohol	64-17-5	No	No	No	No

Other US EPA or State Lists

Hazardous Components (Chemical Name)	CAS#	CAA HAP,ODC	CWA NPDES	TSCA	CA PROP.65
1. 12(S)-HHTrE	54397-84-1	No	No	No	No
2. Ethyl alcohol	64-17-5	No	No	Inventory	No

Regulatory Information Statement:

This SDS was prepared in accordance with 29 CFR 1910.1200, Regulation (EC) No.1272/2008, and European Directive 67/548/EEC as amended.

16. Other Information

Revision Date: 04/05/2013

Company Policy or Disclaimer

For research use only, not for human or veterinary use.

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.

N.A.=Not available, N.P.=Not applicable, N.D.=Not determined, N.E.=Not established, N.R.=Not required