



MATERIAL SAFETY DATA SHEET

SECTION 1. Chemical Product and Company Identification (+/-)5-HETE lactone

Product Code: 73279-37-5 , **Reference #:** 34215

Product Name: (+/-)5-HETE lactone

CAS Number: 73279-37-5

Chemical Family: Hydroxy Fatty Acids

Synonyms

(+/-)5-hydroxy-6E,8Z,11Z,14Z-eicosatetraenoic acid, 1,5-lactone

Manufacturer Name and Address:

Cayman Chemical Company

1180 E. Ellsworth Rd.

Ann Arbor, MI. 48108

Cayman Chemical Company

Cayman Chemical Company

Telephone Numbers:

(800)364-9897

(734)971-3335

Dates:

Date Entered:
06/27/1996

Revision: 03/26/2003

Printed: 03/26/2003

SECTION 2. Composition/Information on Ingredients (+/-)5-HETE lactone

Hazardous Components (Specific Chemical Identity/Common Name)

Name: (+/-)5-HETE lactone

CAS #: 73279-37-5

OSHA PEL: No data.

Percentage: 0.01 %

ACGIH TLV: No data.

Name: Acetonitrile

CAS #: 75-05-8

OSHA PEL: 8H TWA:40ppm (70 mg/m3)

Percentage: 99.99 %

ACGIH TLV: No data.

SECTION 3. Hazards Identification (+/-)5-HETE lactone

Emergency Overview

No data available.

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

Potential Health Effects (Acute and Chronic)

Contact may cause skin or eye irritation.

Material is irritating to the mucous membranes and upper respiratory tract.
May be harmful by inhalation, ingestion, or skin absorption.
May cause eye, skin, or respiratory system irritation.
Repeated exposure may cause skin dryness or cracking.
Vapors may cause drowsiness and dizziness.
The toxicological properties of this compound have not been fully evaluated.
Carcinogenicity: NTP? No , IARC Monographs? No , OSHA Regulated? No
Carcinogenicity/Other Information
No data available.
Signs and Symptoms Of Exposure
Irritating to the skin, eyes, nose, throat, and respiratory tract.

SECTION 4. First Aid Measures (+/-)5-HETE lactone

Emergency and First Aid Procedures

If inhaled remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.
Do not give direct mouth-to-mouth if victim ingested or inhaled this substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
If swallowed, wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention.
In case of contact with eyes, hold eyelids apart and flush eyes with plenty of water. After initial flushings, remove any contact lenses and continue flushing for at least 20 minutes. Have eyes examined and tested by medical personnel.
In case of skin contact, immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

Note to Physician

No data available.

Medical Conditions Generally Aggravated By Exposure

No data available.

SECTION 5. Fire Fighting Measures (+/-)5-HETE lactone

Flash Pt: 42.00 F **Method Used:** See note below

Explosive Limits: LEL: 4.4% UEL: 16%

Autoignition Pt: 973.00 F **Extinguishing Media**

Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray when fighting fires involving this material.

Fire Fighting Instructions

As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

Note: Flammable as diluted in acetonitrile

Flammable Properties and Hazards

Can release vapors that form explosive mixtures at temperatures at or above the flash point.

Container explosion may occur under fire conditions.

Emits toxic and corrosive fumes under fire conditions.

Flammable liquid.

Vapors can travel to a source of ignition and flash back.

Hazardous Combustion Products

carbon dioxide

carbon monoxide

nitrogen oxide

(+/-)5-HETE lactone

Physical States:	[] Gas , [X] Liquid , [] Solid
Boiling Point:	No data.
Melting Point:	No data.
Specific Gravity (Water = 1):	No data.
Density:	No data.
Vapor Pressure (vs. Air or mm Hg):	No data.
Vapor Density (vs. Air = 1):	No data.
Evaporation Rate (vs Butyl Acetate=1):	No data.
Solubility in Water:	0.1 mg/ml* at 25.0 C
Other Solubility Notes:	*PBS pH 7.2, sol. in DMF, DMSO & EtOH
Percent Volatile:	No data.
Saturated Vapor Concentration:	No data.
Viscosity:	No data.
Molecular Formula:	C20H30O2
Molecular Weight:	302.50
pH:	No data.
Appearance and Odor	
A clear, colorless solution	

**SECTION 10. Stability and Reactivity
(+/-)5-HETE lactone**

Stability: Unstable [] Stable [X]

Conditions To Avoid - Instability

No data available.

Incompatibility - Materials To Avoid

acids

bases

oxidizing agents

reducing agents

alkali metals

Hazardous Decomposition Or Byproducts

carbon dioxide

carbon monoxide

nitrogen oxide

hydrogen cyanide

Hazardous Polymerization: Will occur [] Will not occur [X]

Conditions To Avoid - Hazardous Polymerization

No data available.

**SECTION 11. Toxicological Information
(+/-)5-HETE lactone**

The toxicological effects of this compound have not been thoroughly studied.

Chronic Toxicological Effects

No data available.

SECTION 12. Ecological Information

(+/-)5-HETE lactone

Runoff from fire control or dilution water may cause pollution.

**SECTION 13. Disposal Considerations
(+/-)5-HETE lactone****Waste Disposal Method**

Dispose in accordance with local, state and federal regulations.

**SECTION 14. Transport Information
(+/-)5-HETE lactone****DOT Proper Shipping Name**

Acetonitrile

DOT Hazard Class: 3

DOT Hazard Label: Flammable liquid

UN/NA Number: 1648

Additional Transport Information

Transport in accordance with local, state, and federal regulations.

**SECTION 15. Regulatory Information
(+/-)5-HETE lactone**

Regulatory information on this product is not available.

**SECTION 16. Other Information
(+/-)5-HETE lactone**

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

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