

(±)12-HpETE: sc-204983



MATERIAL SAFETY DATA SHEET

The Power to Question

SECTION 1. Chemical Product and Company Identification

Product Name: (±)12-HpETE
Product Number: sc-204983
Chemical Family: Hydroperoxy Fatty Acids
Synonyms: 12-hydroperoxy-5Z,8Z,10E,14Z-eicosatetraenoic acid;
Supplier: Santa Cruz Biotechnology, Inc.
2145 Delaware Avenue
Santa Cruz, CA 95060
800.457.3801 or 831.457.3800
Emergency: ChemWatch
Within the US & Canada: 877-715-9305
Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112

SECTION 2. Composition/Information on Ingredients

Hazardous Components (Specific Chemical Identity/Common Name)

Name:	(+/-)12-HpETE	Percentage:	0.01 %
CAS #:	71030-35-8	ACGIH TLV:	No data.
OSHA PEL:	No data.		
Name:	Ethyl alcohol	Percentage:	99.99 %
CAS #:	64-17-5	ACGIH TLV:	No data.
OSHA PEL:	8H TWA:1000ppm (1900 mg/m3)		

SECTION 3. Hazards Identification

Emergency Overview

Route(s) of Entry

Inhalation Yes
Skin Yes
Eyes Yes
Ingestion Yes
Other Injection

Potential Health Effects (Acute and Chronic)

Long term repeated oral exposure to ethanol may result in the development of progressive liver injury with fibrosis.

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.

Repeated ingestion of ethanol by pregnant mothers has been shown to adversely affect the CNS system of the fetus, producing a collection of effects which together constitute fetal alcohol syndrome. These include mental and physical retardation, disturbances of learning, motor and language deficiencies, behavioral disorders and small size head.

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: Dizziness, drowsiness, headache, nausea, and vomiting.

Irritating to the skin, eyes, nose, throat, and respiratory tract.

SECTION 4. First Aid Measures

Emergency and First Aid Procedures

Inhalation: remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

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.

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.

Skin: 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: Repeated exposure to ethanol may aggravate liver injury produced from other causes.

SECTION 5. Fire Fighting Measures

Flash Pt: 14° C

Method Used: TCC

Explosive Limits:

LEL: 3.3%

UEL: 19%

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 ethanol.

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.

Flammable liquid.

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

Hazardous Combustion Products: carbon dioxide, carbon monoxide

SECTION 6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. After removal, ventilate contaminated area and flush thoroughly with water.

SECTION 7. Handling and Storage

Hazard Label Information:

Avoid contact with skin and eyes.

Do not reuse this container.

Use with adequate ventilation.

Wash thoroughly after handling.

Precautions To Be Taken in Handling:

Avoid contact with eyes, skin, and clothing.

Avoid prolonged or repeated exposure.

Do not reuse this container.

Keep away from sources of ignition.

Use with adequate ventilation.

Wash thoroughly after handling.

Precautions To Be Taken in Storing: Store at -80° C.

Other Precautions: No data available.

Work/Hygienic/Maintenance Practices: Do not take internally. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Wash thoroughly after handling.

SECTION 8. Exposure Controls/Personal Protection

Protective Equipment Summary – Hazard Label Information

Eye wash station in work area

Lab coat Latex disposable gloves

Safety glasses

Safety shower in work area

Vent Hood

Respiratory Equipment (Specify Type)

No data available.

Eye Protection

Safety glasses

Protective Gloves

Latex disposable gloves

Other Protective Clothing

Lab coat

Engineering Controls (Ventilation etc.)

Good general ventilation should be sufficient to control airborne levels.

SECTION 9. Physical and Chemical Properties

Form:	Liquid
Boiling Point:	No data.
Melting Point:	No data.
Specific Gravity (Water = 1):	No data.
Density:	No data.
Vapor Pressure:	44.6 mmHg at 20° C
Vapor Density (vs. Air = 1):	No data.
Evaporation Rate (vs Butyl Acetate=1):	No data.
Solubility in Water:	0.5 mg/ml* at 25° C
Other Solubility Notes:	*PBS pH 7.2, sol. in EtOH, DMSO, & DMF
Percent Volatile:	No data.
Saturated Vapor Concentration:	No data.
Viscosity:	No data.
Molecular Formula:	C ₂₀ H ₃₂ O ₄
Molecular Weight:	336.50
pH:	No data.

SECTION 10. Stability and Reactivity

Stability: Stable

Conditions To Avoid – Instability: No data available.

Incompatibility – Materials To Avoid: strong inorganic acids, strong oxidizing agents

Hazardous Decomposition Or Byproducts: carbon dioxide, carbon monoxide

Hazardous Polymerization: Will not occur

Conditions To Avoid – Hazardous Polymerization: No data available.

SECTION 11. Toxicological Information

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

Chronic Toxicological Effects: No data available.

SECTION 12. Ecological Information

Runoff from fire control or dilution water may cause pollution.

SECTION 13. Disposal Considerations

Waste Disposal Method: Dispose in accordance with local, state and federal regulations.

SECTION 14. Transport Information

DOT Proper Shipping Name: Ethyl alcohol

DOT Hazard Class: 3

DOT Hazard Label: Flammable Liquid

UN/NA Number: 1170

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

SECTION 15. Regulatory Information

Regulatory information on this product is not available.

SECTION 16. Other Information

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

2/15/2011