

9(S)-HODE: sc-205194



MATERIAL SAFETY DATA SHEET

The Power to Question

SECTION 1. Chemical Product and Company Identification

Product Name: 9(S)-HODE
Product Number: sc-205194
Chemical Family: Hydroxy Fatty Acids
Synonyms: 9S-hydroxy-10E,12Z-octadecadienoic 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: 9(S)-HODE
CAS#: 73543-67-6
OSHA PEL: No data.
ACGIH TLV: No data.
Name: Ethyl alcohol
CAS#: 64-17-5
OSHA PEL: 8H TWA:1000ppm (1900 mg/m3)
ACGIH TLV: No data.

SECTION 3. Hazards Identification

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)

Exposure may cause: Dizziness, drowsiness, headache, nausea, and vomiting

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

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

SECTION 4. First Aid Measures

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.

If swallowed: 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.

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.

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

SECTION 5. Fire Fighting Measures

Flash Pt: 1400 °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 temperature at or above the flashpoint. Container explosion may occur 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 Storage

Store at -20 °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 9. Physical and Chemical Properties

Form	liquid	Boiling Point	No data.
Melting Point	No data.	Specific Gravity	No data.
Density	No data.	Vapor Pressure	44.6 mmHG at 20 °C
Vapor Density (vs. Air = 1)	No data.	Evaporation Rate	No data.
Percent Volatile	No data.	Saturated Vapor Conc	No data.
Viscosity	No data.	Molecular Formula	C18H32O3
Molecular Weight	296.5	pH	No data.
Solubility in Water	>1 mg/ml*	Other Solubility Notes	*PBS pH 7.2, sol. in EtOH, DMSO, & DMF

SECTION 10. Stability and Reactivity

Stability: Unstable [] Stable [X]

Conditions To Avoid - Instability

No data available

Incompatibility - Materials To Avoid

strong inorganic acids

strong oxidizing agents

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

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. Regulation 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.

1/4/2012