12(S)-HETE: sc-200942

SANTA CRUZ

MATERIAL SAFETY DATA SHEET

The Power to Question

SECTION 1 - PRODUCT AND COMPANY INFORMATION

Product Name: 12(S)-HETE
Catalog Number: sc-200942

Supplier: Santa Cruz Biotechnology, Inc.

2145 Delaware Ave. Santa Cruz, California 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 INGREDIENT

 Substance Name
 CAS #
 SARA 313

 12(S)-HETE
 54397-83-0
 No

 Ingredient Name
 CAS #
 %
 SARA 313

 Ethyl Alcohol, non-denatured, 200 proof
 64-17-5
 ≥ 99
 No

 Synonyms
 12(S)-Hydroxyeicosa-5Z,8Z,10E,14Z-tetraenoic acid (HETE).

12(S)-Hydroxyeicosa-5Z,8Z,10E,14Z-tetraenoic acid (HETE);
12(S)-HYDROXY-(5Z,8Z,10E,14Z)-EICOSATETRAENOIC
ACID; 12(S)-HYDROXYEICOSA-5Z,8Z,10E,14Z-TETRAENOIC
ACID; (12S,5Z,8Z,10E,14Z)-12-Hydroxyeicosatetraenoic acid; 12(S)-hydroxy-(5Z,8Z,10E,14Z)-*eicosatetraenoic A;
12(S)-HYDROXY-(5Z,8Z,10E,14Z)-*EICOSATET RAENOIC
ACI; (s)-12-hete; (5Z,8Z,10E,12S,14Z)-12-Hydroxy-

Hydroxyicosa-5,8,10,14-tetraenoic acid; (S)-12-

5,8,10,14-icosatetraenoic acid; (5Z,8Z,10E,12S,14Z)-12-

Hydroxyeicosatetraenoic acid;

Formula: $C_{20}H_{32}O_3$ Molecular Weight: 320.5

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Flammable (USA) Highly Flammable (EU). Irritant. Irritating to eyes, respiratory system and skin.

Target organ(s): Liver. Nerves.

HMIS RATING

HEALTH: 2 FLAMMABILITY: 3 REACTIVITY: 0

NFPA RATING

HEALTH: 2 FLAMMABILITY: 3 REACTIVITY: 0

*additional chronic hazards present.

For additional information on toxicity, please refer to Section 11.

SECTION 4 - FIRST AID MEASURES

ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.

INHALATION EXPOSURE

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

DERMAL EXPOSURE

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

EYE EXPOSURE

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABLE HAZARDS

Flammable Hazards: Yes

EXPLOSION HAZARDS

Vapor may travel considerable distance to source of ignition and flash back. Container explosion may occur under fire conditions.

FLASH POINT

14° C Method: closed cup

AUTOIGNITION TEMP

N/A

FLAMMABILITY

N/A

EXTINGUISHING MEDIA

Suitable: For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s): Flammable liquid. Emits toxic fumes under fire conditions.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area. Shut off all sources of ignition. Use nonsparking tools.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Cover with dry-lime, sand, or soda ash. Place in covered containers using nonsparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.

SECTION 7 - HANDLING AND STORAGE

HANDLING

User Exposure: Avoid contact with eyes, skin, and clothing. Do not breathe vapor. Avoid prolonged or repeated exposure.

STORAGE

Suitable: Keep container closed. Keep away from heat, sparks, and open flame. Store at -80°C for up to 1 year.

SECTION 8 - EXPOSURE CONTROLS / PPE

ENGINEERING CONTROLS

Safety shower and eye bath. Use nonsparking tools. Mechanical exhaust required.

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PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Hand: Compatible chemical-resistant gloves.

Eye: Chemical safety goggles.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES

FormLiquid
pH
BP/BP Range
MP/MP RangeN/A
Freezing Point
Vapor Pressure
Vapor Density
Saturated Vapor Conc
SG/Density
Bulk Density
Odor Threshold N/A
Volatile%N/A
VOC Content
Water Content
Solvent Content
Evaporation RateN/A
Viscosity
Surface Tension
Partition Coefficient
Decomposition Temp
Flash Point14° C
Explosion Limits
Flammability
Autoignition TempN/A
Refractive Index
Optical Rotation
Miscellaneous Data
Solubility

Method: closed cup

SECTION 10 - STABILITY AND REACTIVITY

STABILITY

Stable: Stable.

N/A = not available

Conditions to Avoid: Moisture.

Materials to Avoid: Oxidizing agents, Peroxides, Acids, Acid chlorides, Acid anhydrides, Alkali metals, Ammonia.

HAZARDOUS DECOMPOSITION PRODUCTS

 $\label{thm:composition} \mbox{ Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.}$

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

SECTION 11 - TOXICOLOGICAL INFORMATION

ROUTE OF EXPOSURE

Skin Contact: Causes skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: Causes eye irritation.

Inhalation: May be harmful if inhaled. Material is irritating to mucous mem-

branes and upper respiratory tract. Ingestion: May be harmful if swallowed.

TARGET ORGAN(S) OR SYSTEM(S)

Nerves. Liver. Heart.

SECTION 12 - ECOLOGICAL INFORMATION

No data available.

SECTION 13 - DISPOSAL CONSIDERATIONS

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

SECTION 14 - TRANSPORT INFORMATION

DOT

Proper Shipping Name: Ethanol [or] Ethyl alcohol [or] Ethanol solutions [or] Ethyl alcohol solutions

UN#: 1170 Class: 3

Packing Group: Packing Group II Hazard Label: Flammable liquid

PIH: Not PIH

IATA

Proper Shipping Name: Ethanol solution

IATA UN Number: 1170 Hazard Class: 3 Packing Group: II

SECTION 15 - REGULATORY INFORMATION

EU ADDITIONAL CLASSIFICATION

Symbol of Danger: F-Xi

Indication of Danger: Highly Flammable. Irritant.

R: 11-36/37/38

Risk Statements: Highly flammable. Irritating to eyes, respiratory system and skin.

S: 7-16-26-36

Safety Statements: Keep container tightly closed. Keep away from sources of ignition - no smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

US CLASSIFICATION AND LABEL TEXT

Indication of Danger: Flammable (USA) Highly Flammable (EU).

Irritant

Risk Statements: Irritating to eyes, respiratory system and skin.

Safety Statements: Keep container tightly closed. Keep away from sources of ignition - no smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

US Statements: Target organ(s): Liver. Nerves.

UNITED STATES REGULATORY INFORMATION

SARA LISTED: No

CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by

the CPR. DSL: No NDSL: No

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. 1/31/2011

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