

15(R)-Prostaglandin E2: sc-205035



The Power to Question

MATERIAL SAFETY DATA SHEET

SECTION 1. Chemical Product and Company Identification 15(R)-Prostaglandin E2

Product Code: sc-205035

Product Name: 15(R)-Prostaglandin E2

CAS Number: 38873-82-4

Chemical Family: Prostaglandin

Synonyms

9-oxo-11.alpha.,15R-dihydroxy-prosta-5Z,13E-dien-1-oic acid;

15-epi PGE2

Company: Santa Cruz Biotechnology, Inc.

2145 Delaware Avenue

Santa Cruz, California 95060

800.457.3801 or 831.457.3800

SECTION 2. Composition/Information on Ingredients 15(R)-Prostaglandin E2

Hazardous Components (Specific Chemical Identity/Common Name)

Name: 15(R)-Prostaglandin E2 {15-epi Prostaglandin E2}

CAS #: 38873-82-4

Percentage: 1.0 %

OSHA PEL: No data.

ACGIH TLV: No data.

Name: Methyl acetate {Methyl ester of acetic acid}

CAS #: 79-20-9

Percentage: 99.0 %

OSHA PEL: 8H TWA:200ppm (610 mg/m3)

ACGIH TLV: No data.

SECTION 3. Hazards Identification 15(R)-Prostaglandin E2

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

15(R)-Prostaglandin E2

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.
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

15(R)-Prostaglandin E2

Flash Pt: 15.00 F **Method Used:** See note below

Explosive Limits: LEL: 3.1% UEL: 16%

Autoignition Pt: 936.00 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 methyl acetate

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

SECTION 6. Accidental Release Measures

15(R)-Prostaglandin E2

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

15(R)-Prostaglandin E2

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.

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 correct temperature.

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

15(R)-Prostaglandin E2

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

15(R)-Prostaglandin E2

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:	5 mg/ml* at 25.0 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:	C20H32O5
Molecular Weight:	352.50
pH:	No data.
Appearance and Odor	
A clear, colorless solution.	

SECTION 10. Stability and Reactivity

15(R)-Prostaglandin E2

Stability: Unstable [] Stable [X]

Conditions To Avoid - Instability

No data available.

Incompatibility - Materials To Avoid

No data available.

Hazardous Decomposition Or Byproducts

carbon dioxide

carbon monoxide

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

Conditions To Avoid - Hazardous Polymerization

No data available.

SECTION 11. Toxicological Information

15(R)-Prostaglandin E2

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

Chronic Toxicological Effects

No data available.

SECTION 12. Ecological Information

15(R)-Prostaglandin E2

Runoff from fire control or dilution water may cause pollution.

SECTION 13. Disposal Considerations

15(R)-Prostaglandin E2

Waste Disposal Method

Dispose in accordance with local, state and federal regulations.

SECTION 14. Transport Information
15(R)-Prostaglandin E2

DOT Proper Shipping Name

Methyl acetate

DOT Hazard Class: 3

DOT Hazard Label: FLAMMABLE LIQUID

UN/NA Number: 1231

Additional Transport Information

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

SECTION 15. Regulatory Information
15(R)-Prostaglandin E2

Regulatory information on this product is not available.

SECTION 16. Other Information
15(R)-Prostaglandin E2

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.

Emergency:

ChemWatch

Within the US & Canada: 877-715-9305

Outside the US & Canada: +800 2436 2255

(1-800-CHEMCALL) or call +613 9573 3112