

13,14-dihydro-15-keto Prostaglandin F2 α isopropyl ester: sc-205001



The Power to Question

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Code: sc-205001
Product Name: 13,14-dihydro-15-keto Prostaglandin F2 α isopropyl ester
Company Name: Santa Cruz Biotechnology, Inc.
2145 Delaware Avenue
Santa Cruz, California 95060
800.457.3801 or 831.457.3800

Synonyms: 9.alpha.,11.alpha.-dihydroxy-15-oxo-prost-5Z-en-1-oic acid, isopropyl ester;
13,14-dihydro-15-keto PGF2.alpha. isopropyl ester;

2. Hazards Identification

Emergency Overview: Highly Flammable.
The hazards identified with this product are those associated with the solvent(s).

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

Health Hazards (Acute and Chronic): Contact may cause eye irritation.
May cause skin or respiratory tract irritation.
May be harmful by inhalation, ingestion, or skin absorption.
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.

LD 50 / LC 50: Please refer to Section 11.

Signs and Symptoms Of Exposure: Inhalation may cause coughing, dizziness, dullness, and headache.
Irritating to the skin, eyes, nose, throat, and respiratory tract.

3. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS #	Concentration	EC#	RTECS #
1. 13,14-dihydro-15-keto Prostaglandin F2.alpha. isopropyl ester	199920-18-8	1.0 %	NA	NA
2. Methyl acetate	79-20-9	99.0 %	201-185-2	AI9100000

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.

5. Fire Fighting Measures

Flash Pt: -13.00 C Method Used: Closed Cup

Explosive Limits: LEL: 3% at 25.0 C UEL: 16% at 25.0 C

Autoignition Pt: 455.00 C

Special Fire Fighting Procedures:	As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes. Note: Flammable as diluted in methyl acetate. Use water spray to cool fire-exposed containers.
Unusual Fire and Explosion 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 fumes under fire conditions. Flammable liquid. Vapors can travel to a source of ignition and flash back.
Hazardous Combustion Products:	No data available.
Suitable Extinguishing Media:	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use of water spray when fire fighting may be inefficient.
Unsuitable Extinguishing Media:	No data available.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled:	Avoid breathing vapors and provide adequate ventilation. As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves). 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.
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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 breathing (dust, vapor, mist, gas). Avoid prolonged or repeated exposure. Keep away from sources of ignition. Prevent the build up of electrostatic charge.
Precautions To Be Taken in Storing:	Keep tightly closed. Protect from moisture. Store at correct temperature.

8. Exposure Controls/Personal Protection

Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TWA	Other Limits
1. 13,14-dihydro-15-keto Prostaglandin F2.alpha. isopropyl ester	199920-18-8	No data.	No data.	No data.
2. Methyl acetate	79-20-9	PEL: 8H TWA:200 ppm (610 mg/m3)	TLV: 200 ppm STEL: 250 ppm	No data.

Protective Equipment Summary - Hazard Label Information:	Eye wash station in work area Lab coat Compatible chemical-resistant gloves Safety glasses Safety shower in work area Vent Hood
Respiratory Equipment (Specify Type):	NIOSH approved respirator, as conditions warrant.
Eye Protection:	Safety glasses
Protective Gloves:	Compatible chemical-resistant gloves
Other Protective Clothing:	Lab coat
Ventilation:	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.
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.

9. Physical and Chemical Properties

Physical States:	☐ Gas ☒ Liquid ☐ Solid
Melting Point:	No data.
Boiling Point:	No data.
Autoignition Pt:	455.00 C
Flash Pt:	-13.00 C Method Used: Closed Cup
Explosive Limits:	LEL: 3% at 25.0 C UEL: 16% at 25.0 C
Specific Gravity (Water = 1):	No data.
Bulk density:	No data.
Vapor Pressure (vs. Air or mm Hg):	165 MM_HG at 20.0 C
Vapor Density (vs. Air = 1):	No data.
Evaporation Rate (vs Butyl Acetate=1):	No data.
Solubility in Water:	No data.
Percent Volatile:	No data.
Heat Value:	No data.
Particle Size:	No data.
Corrosion Rate:	No data.
Formula:	C23H40O5
Molecular Weight:	396.60
pH:	No data.
Appearance and Odor:	A clear, colorless solution

10. Stability and Reactivity

Stability:	Unstable ☐ Stable ☒
Conditions To Avoid - Instability:	protect from heat, flame, and ignition sources
Incompatibility - Materials To Avoid:	nitrates strong oxidizing agents
Hazardous Decomposition Or Byproducts:	carbon dioxide carbon monoxide
Possibility of Hazardous Reactions:	Will occur ☐ Will not occur ☒
Conditions To Avoid - Hazardous Reactions:	No data available.

11. Toxicological Information

:	The toxicological effects of this compound have not been thoroughly studied.
Chronic Toxicological Effects:	Methyl Acetate - Toxicity Data: Oral LD50 (rat): > 5000 mg/kg; Skin LD50 (rabbit): > 5000 mg/kg; Irritation Data: Skin (rabbit): 24H mild; Eyes (rabbit): 24H moderate; Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information. Methyl Acetate RTECS Number: AI9100000
Carcinogenicity/Other Information:	No data available.
Carcinogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No

12. Ecological Information

:	Runoff from fire control or dilution water may cause pollution. Methyl Acetate - Toxicity to fish: Brachydanio rerio (zebra fish) - 250 - 350 mg/l - 96 h; Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna (Water flea) - 700 - 1,000 mg/l - 24 h;
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13. Disposal Considerations

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

LAND TRANSPORT (US DOT)

DOT Proper Shipping Name: Methyl acetate
DOT Hazard Class: 3
DOT Hazard Label: FLAMMABLE LIQUID
UN/NA Number: 1231
Packing Group: II

LAND TRANSPORT (European ADR/RID)

ADR/RID Proper Shipping Name: Methyl acetate
UN Number: 1231
Packing Group: II

AIR TRANSPORT (ICAO/IATA)

ICAO/IATA Proper Shipping Name: Methyl acetate
UN Number: 1231
Packing Group: II
IATA Classification: 3

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

15. Regulatory Information

European Community Hazard Symbol codes: F: Highly Flammable; Xi: Irritant

European Community Risk and Safety Phrases

R11 - Highly flammable.
R36 - Irritating to eyes.
R66 - Repeated exposure may cause skin dryness or cracking
R67 - Vapours may cause drowsiness and dizziness
S16 - Keep away from sources of ignition.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S29 - Do not empty into drains.
S33 - Take precautionary measures against static discharges.

US EPA SARA Title III

Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. 13,14-dihydro-15-keto Prostaglandin F2.alpha. isopropyl ester	199920-18-8	No	No	No	No
2. Methyl acetate	79-20-9	No	No	No	No

US EPA CAA, CWA, TSCA

Hazardous Components (Chemical Name)	CAS #	EPA CAA	EPA CWA NPDES	EPA TSCA	HPV/LPV
1. 13,14-dihydro-15-keto Prostaglandin F2.alpha. isopropyl ester	199920-18-8	HAP, ODC ()	No	No	
2. Methyl acetate	79-20-9	HAP, ODC ()	No	Inventory, 8A PAIR	

16. Other Information

Company Policy or Disclaimer

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