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Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108



May damage fertility or the unborn child



# 1. Identification of the Substance/Mixture and of the Company/Undertaking

**Product Code:** 10007232

Product Name: Prostaglandin F2.beta. Lipid Maps MS Standard

Synonyms: 9.beta.,11.alpha.,15S-trihydroxy-prosta-5Z,13E-dien-1-oic acid; 9.beta.-PGF2.alpha.; PGF2.beta.

**Intended Use:** For research use only, not for human or veterinary use.

**Manufacturer Information** 

Toxic To Reproduction, Category 1B

Company Name: Cayman Chemical Company

Emergency Contact:CHEMTREC Within USA and Canada:+1 (800)424-9300Alternate Emergency Contact:CHEMTREC Outside USA and Canada:+1 (703)527-3887

Information: Cayman Chemical Company +1 (734)971-3335

Web site address: www.caymanchem.com

2. Hazards Identification					
GHS Classification	Placard	Key word	GHS Hazard		
Acute Toxicity: Oral, Category 4	Exclamation	Warning	Harmful if swallowed		
	point				

GHS Hazard Phrases: H302: Harmful if swallowed.

H360: May damage fertility or the unborn child.

GHS Precaution Phrases: P264: Wash hands thoroughly after handling.

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P281: Use personal protective equipment as required.

GHS Response Phrases: P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330: Rinse mouth.

P308+313: IF exposed or concerned: Get medical attention/advice.

**GHS Storage and Disposal Phrases:** Please refer to Section 7 for Storage and Section 13 for Disposal information.

Health hazard | Danger

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

Potential Health Effects (Acute and Chronic): Harmful if swallowed.

Material may be irritating to the mucous membranes and upper respiratory tract.

May be harmful by inhalation or skin absorption.

May cause adverse reproductive effects in males and/or females.

May cause eye, skin, or respiratory system irritation.

May cause gastrointestinal disturbances. May cause harm to the unborn child.

May impair fertility.

May stimulate contraction of intestinal and reproductive smooth muscle. This chemical has the potential to induce premature labor or abortion.

Target Organs: Central nervous system, Eyes, Reproductive system, Gastrointestinal System, Smooth muscles,

Respiratory system, Endocrine system, Skin.

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

Signs and Symptoms Of Exposure: Exposure can cause: diarrhea, dizziness, fever, flushing, headache, hypotension, nausea,

shivering, vomiting.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.



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 $\label{thm:medical conditions Generally Aggravated By} \quad \mbox{No data available}.$ 

Exposure:

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- 1	U.OMNOSITION	/Information on	Indredients
Ο.	Composition		nigi calcino

Hazardous Components (Chemical Name)	CAS#	Concentration	EC#	Risk Phrases	RTECS #
Prostaglandin F2.beta.	4510-16-1	100.0 %	NA	R22-60-61	MJ9658000

#### 4. First Aid Measures

**Emergency and First Aid Procedures:** 

In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained

personnel. Get immediate medical attention.

In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 20 minutes. Remove

contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes

examined and tested by medical personnel.

In Case of 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.

Indication of any immediate medical attention and special treatment needed:

No data available.

## 5. Fire Fighting Measures

Suitable Extinguishing Media: Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing Media: A solid water stream may be inefficient.

Flammable Properties and Hazards: Emits toxic fumes under fire conditions.

Flash Pt: No data.

Autoignition Pt: No data available.

Explosive Limits: LEL: No data. UEL: No data.

Hazardous Combustion Products: No data available.

Fire Fighting Instructions: 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.

#### 6. Accidental Release Measures

**Protective Precautions, Protective** 

Avoid raising and breathing dust, and provide adequate ventilation.

**Equipment and Emergency Procedures:** 

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).

**Environmental Precautions:** Take steps to avoid release into the environment, if safe to do so.

Steps To Be Taken In Case Material Is

Contain spill and collect, as appropriate.

Released Or Spilled:

Transfer to a chemical waste container for disposal in accordance with local regulations.

#### 7. Handling and Storage

**Precautions To Be Taken in Handling:** Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid exposure.

**Precautions To Be Taken in Storing:** Keep container tightly closed.

Store in accordance with information listed on the product insert.

**Hazard Label Information:** Avoid contact with skin and eyes. Do not reuse this container. Use with adequate ventilation.

Wash thoroughly after handling.



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Hazardous Components (Chemical Name)	CAS#	OSHA PEL	ACGIH TLV	Other Limits
Prostaglandin F2.beta.	4510-16-1	No data.	No data.	No data.
Hazardous Components (Chemical Name)	CAS#	Britain EH40	France VL	Europe
1. Prostaglandin F2.beta.	4510-16-1	No data.	No data.	No data.
Protective Equipment Summary - Hazard Label Information:	-	_	ye wash station in work area ent Hood	Lab coat Safety
Engineering Controls (Ventilation etc.):	-	osures, local exhaust vent mmended exposure limit	tilation, or other engineering cores.	ntrols to control airbor
Eye Protection:	Safety glasses			
Protective Gloves:	Compatible chem	ical-resistant gloves		
Other Protective Clothing:	Lab coat			
Respiratory Equipment (Specify Type):	NIOSH approved	respirator, as conditions	warrant.	
Work/Hygienic/Maintenance Practices:	Do not take interr Facilities storing		should be equipped with an eye	wash and a safety
	shower. Wash thoroughly	after handling.		
<b>Environmental Exposure Controls:</b>	No data available			
9.	Physical an	d Chemical Pr	operties	
Information on Basic Physical and Chemical	Properties			
Physical States:	[ ] Gas [ ] I	Liquid [X] Solid		
Appearance and Odor:	A crystalline solic	d		
Melting Point:	No data.			
Boiling Point:	No data.			
Flash Pt:	No data.			
Evaporation Rate:	No data.			
Vapor Pressure (vs. Air or mm Hg):	No data.			
Vapor Density (vs. Air = 1):	No data.			
Specific Gravity (Water = 1):	No data.			
Solubility in Water:	No data.			
Solubility Notes:	~100 mg/ml in Et	OH, DMF, & DMSO;		
Autoignition Pt:	No data.			
Explosive Properties:	No data available			
Oxidizing Properties:	No data available			
Other Information				
Percent Volatile:	No data.			
Formula:	C20H34O5			
Molecular Weight:	354.50			
	10. Stabil	ity and Reactiv	rity	
Reactivity:	No data available			
Stability:	Unstable [ ]	Stable [ X ]		
Stability Note(s):			ation listed on the product insert	t.



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Conditions To Avoid: No data available.

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

Incompatibility - Materials To Avoid: strong oxidizing agents

Hazardous Decomposition Or Byproducts: carbon dioxide

carbon monoxide

### 11. Toxicological Information

**Toxicological Information:** The toxicological effects of this compound have not been thoroughly studied.

**Chronic Toxicological Effects:** Prostaglandin F2.beta. - Investigated as a reproductive effector.

Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.

See actual entry in RTECS for complete information. Prostaglandin F2.beta. RTECS Number: MJ9658000

Hazardous Components (Chemical Name)	CAS#	NTP	IARC	ACGIH	OSHA
Prostaglandin F2.beta.	4510-16-1	n.a.	n.a.	n.a.	n.a.
Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No					

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### 12. Ecological Information

General Ecological Information: Avoid release into the environment.

Runoff from fire control or dilution water may cause pollution.

### 13. Disposal Considerations

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

#### 14. Transport Information

#### Globally Harmonized System of Classification and Labelling

Acute Toxicity: Oral, Category 4 - Warning! Harmful if swallowed

Toxic To Reproduction, Category 1B - Danger! May damage fertility or the unborn child

LAND TRANSPORT (US DOT)

**DOT Proper Shipping Name**Not dangerous goods.

LAND TRANSPORT (European ADR/RID)

ADR/RID Shipping Name Not dangerous goods.

AIR TRANSPORT (ICAO/IATA)

ICAO/IATA Shipping Name

Not dangerous goods.

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

# 15. Regulatory Information

 $\textbf{European Community Hazard Symbol codes} \quad T: Toxic; Reproductive \ Hazard: \ 2$ 

#### **European Community Risk and Safety Phrases**

R22 - Harmful if swallowed.

R60 - May impair fertility.

R61 - May cause harm to the unborn child.

S22 - Do not breathe dust.

S24/25 - Avoid contact with skin and eyes.

- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

 $S36/37/39 \quad \hbox{- Wear suitable protective clothing, gloves and eye/face protection.}$ 

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible.)

S53 - Avoid exposure - obtain special instructions before use.

#### US EPA SARA Title III



# **SAFETY DATA SHEET**

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Hazardous Components (Chemical Name)	CAS#	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110		
Prostaglandin F2.beta.	4510-16-1	No	No	No	No		
Other US EPA or State Lists							
Hazardous Components (Chemical Name)	CAS#	CAA HAP,ODC	CWA NPDES	TSCA	CA PROP.65		
Prostaglandin F2.beta.	4510-16-1	No	No	No	No		
Regulatory Information Statement: This SDS was prepared in accordance with 29 CFR 1910.1200, Regulation (EC) No.1272/2008, and European Directive 67/548/EEC as amended.							
16. Other Information							

**Revision Date:** 12/13/2012

#### **Company Policy or Disclaimer**

For research use only, not for human or veterinary use.

DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

N.A.=Not available, N.P.=Not applicable, N.D.=Not determined, N.E.=Not established, N.R.=Not required