

2,3-dinor-11.beta.-Prostaglandin F2.alpha. Lipid Maps MS Standard

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



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

Product Code: 10007225

Product Name: 2,3-dinor-11.beta.-Prostaglandin F2.alpha. Lipid Maps MS Standard

Synonyms: 9.alpha.,11.beta.,15S-trihydroxy-2,3-dinor-prosta-5Z,13E-dien-1-oic acid;

2,3-dinor-11.beta.-PGF2.alpha.;

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

Manufacturer Information

Company Name: Cayman Chemical Company

Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300

Alternate 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

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2. Hazardo Idontinoadon						
GHS Classification	Placard	Key word	GHS Hazard			
Flammable Liquids, Category 2	Flame	Danger	Highly flammable liquid and vapor			

GHS Hazard Phrases: H225: Highly flammable liquid and vapor

GHS Precaution Phrases: P210: Keep away from {heat/sparks/open flames/hot surfaces}. - No smoking.

P280: Wear protective gloves/clothing and eye/face protection as specified by the

manufacturer/supplier or the competent authority.

GHS Response Phrases: P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing.

Rinse skin with water/shower.

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

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

Potential Health Effects (Acute and Chronic): Causes eye, skin, or respiratory system irritation.

Material is irritating to the mucous membranes and upper respiratory tract.

May be harmful by inhalation, ingestion, or skin absorption.

Target Organs: Central nervous system, Blood, Eyes, Reproductive system, Heart, Respiratory system, Liver,

Skin.

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

Signs and Symptoms Of Exposure: Irritating to eyes, skin, nose; may cause anemia, cough, CNS depression, drowsiness, headache,

heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects,

teratogenic effects.

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

Medical Conditions Generally Aggravated By No data available.

Exposure:

3. Composition/Information on Ingredients							
Hazardous Components (Chemical Name) CAS # Concentration EC# Risk Phrases RTECS #					RTECS#		
2,3-dinor-11.betaProstaglandin F2.alpha.	240405-20-3	0.01 %	NA	No phrases apply.	NA		
2. Ethyl alcohol	64-17-5	99.99 %	200-578-6	R11	KQ6300000		



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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: Can release vapors that form explosive mixtures at temperatures at or above the flashpoint.

Container explosion may occur under fire conditions.

Emits toxic fumes under fire conditions.

Sensitive to static discharge.

Vapors can travel to a source of ignition and flash back.

Flash Pt: 14.00 C Method Used: Closed Cup

Autoignition Pt: 363.00 C

Explosive Limits: LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C

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.

Note: Flammable as diluted in ethanol.

Accidental Release Measures

Protective Precautions, Protective

Avoid breathing vapors 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 prolonged or repeated exposure. Keep away from sources of ignition.

Take precautionary measures against static discharge.

Precautions To Be Taken in Storing: Keep away from heat, sparks, and flame.

Keep container tightly closed.

Store in accordance with information listed on the product insert.



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Other Precautions: Hygroscopic.

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

Wash thoroughly after handling.

8. Exposure Controls/Personal Protection						
Hazardous Components (Chemical Name)	CAS#	OSHA PEL	ACGIH TLV			
1. 2,3-dinor-11.betaProstaglandin F2.alpha.	240405-20-3	No data.	No data.			

2,3-dinor-11.beta.-Prost No data. 2. Ethyl alcohol No data. 64-17-5 | 1000 ppm 1000 ppm **Hazardous Components (Chemical Name)** Britain EH40 CAS# France VL Europe 1. 2,3-dinor-11.beta.-Prostaglandin F2.alpha. 240405-20-3 No data. No data. No data. 2. Ethyl alcohol 64-17-5 TWA: 1920 mg/m3 (1000 ppm) TWA: 1900 mg/m3 (1000 No data. STEL: () ppm) STEL: 9500 mg/m3 (5000

Protective Equipment Summary - Hazard

Label Information:

Safety

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Other Limits

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glasses Safety shower in work area Vent Hood

Engineering Controls (Ventilation etc.): Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne

levels below recommended exposure limits.

Eye Protection: Safety glasses

Protective Gloves: Compatible chemical-resistant gloves

Other Protective Clothing:

Respiratory Equipment (Specify Type): NIOSH approved respirator, as conditions warrant.

Work/Hygienic/Maintenance Practices: Do not take internally.

Facilities storing or utilizing this material should be equipped with an eyewash and a safety

shower.

Wash thoroughly after handling.

Environmental Exposure Controls: No data available.

9. Physical and Chemical Properties

information of	on Basic	Physical	and Chemical	Properties
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Physical States: [] Gas [X] Liquid [] Solid

Appearance and Odor: Solution **Melting Point:** No data. **Boiling Point:** No data.

Flash Pt: 14.00 C Method Used: Closed Cup

Evaporation Rate: No data.

Explosive Limits: LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C

Vapor Pressure (vs. Air or mm Hg): 43 MM HG at 20.0 C

Vapor Density (vs. Air = 1): No data. Specific Gravity (Water = 1): No data. Solubility in Water: No data. **Autoignition Pt:** 363.00 C

Explosive Properties: No data available. **Oxidizing Properties:** No data available.

Other Information

Percent Volatile: No data.

Multi-region format



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Formula:	C18H30O5					
Molecular Weight:	326.40					
	10. Stabil	ity and Reac	ctivity			
Reactivity:	No data available					
Stability:	Unstable []	Stable [X]				
Stability Note(s):	Stable if stored in	accordance with infe	ormation listed on the	he product insert.		
Conditions To Avoid:	heat, flames and s	sparks				
Polymerization:	Will occur []	Will not occur [X]			
Incompatibility - Materials To Avoid:	alkali metals					
	ammonia					
	peroxides					
	strong oxidizing	agents				
Hazardous Decomposition Or Byproducts:	carbon dioxide carbon monoxide					
		logical Inforn				
Toxicological Information:	The toxicological	effects of this produ	ct have not been the	oroughly studied.		
	Ethanol - Toxicit	y Data: Oral TDLO (man): 1.14 ml/kg; C	Oral TDLO (man): (650 mg/kg; Oral	
) mg/kg; Oral LD50 (0 0	
		t): 6,300 mg/kg; Inha				
	-	pm (30m); Inhalation		- ·	Inhalation LC50	
		n3 (6h); Inhalation LC on Data: Eyes (rabbit)			mg (24h) moderate:	
Chronic Toxicological Effects:		gated as a mutagen, re				
-	=	stry of Toxic Effects	-	_	is presented here.	
	See actual entry in RTECS for complete information.					
		Number: KQ6300000				
Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA	
 2,3-dinor-11.betaProstaglandin F2.alpha. Ethyl alcohol 	240405-20-3	n.a. n.a.	n.a. 1	n.a.	n.a.	
Carcinogenicity:		RC Monographs? No			1	
		gical Informa				
General Ecological Information:		o the environment.				
		control or dilution wa	ater may cause pollu	ation.		
	13. Disposal Considerations					
Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.						
	14. Trans	sport Informa	ation			
Globally Harmonized System of Classificatio		•				
Flammable Liquids, Category 2 - Danger! H	ighly flammable liqui	d and vapor				
LAND TRANSPORT (US DOT)						
DOT Proper Shipping Name	Ethyl Alcohol Solution					
DOT Hazard Class:	3					
DOT Hazard Label:	FLAMMABLE I	LIQUID				
UN/NA Number:	1170					



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Packing Group:

LAND TRANSPORT (European ADR/RID)

ADR/RID Shipping Name Ethyl Alcohol Solution

UN Number: 1170

Hazard Class: 3 - FLAMMABLE LIQUID

Packing Group:

AIR TRANSPORT (ICAO/IATA)

ICAO/IATA Shipping Name Ethyl Alcohol Solution

UN Number: 1170

Hazard Class: 3 - FLAMMABLE LIQUID

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

European Community Risk and Safety Phrases

R11 - Highly flammable.

S7 - Keep container tightly closed.

S16 - Keep away from sources of ignition.S24/25 - Avoid contact with skin and eyes.

S33 - Take precautionary measures against static discharges.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

US EPA SARA Title III

Hazardous Components (Chemical Name)		CAS#	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1	. 2,3-dinor-11.betaProstaglandin F2.alpha.	240405-20-3	No	No	No	No
2	. Ethyl alcohol	64-17-5	No	No	No	No

Other US EPA or State Lists

Hazardous Components (Chemical Name)	CAS#	CAA HAP,ODC	CWA NPDES	TSCA	CA PROP.65
1. 2,3-dinor-11.betaProstaglandin F2.alpha.	240405-20-3	No	No	No	No
2. Ethyl alcohol	64-17-5	No	No	Inventory	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

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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