

CIIN Revision: 04/22/2015 Supersedes Revision: 09/07/2007

F2.alpha. Supersedes Revision: 09/07/2007 according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008 Section 1. Identification of the Substance/Mixture and of the Company/Undertaking 1.1 **Product Code:** 16540 **Product Name:** 11.beta.-13,14-dihydro-15-keto Prostaglandin F2.alpha. Synonyms: 9.alpha.,11.beta.-dihydroxy-15-oxo-prost-5Z-en-1-oic acid; 11.beta.-13,14-dihydro-15-keto PGF2.alpha.; 11-epi 13,14-dihydro-15-keto PGF2.alpha.; 1.2 Relevant identified uses of the substance or mixture and uses advised against: Relevant identified uses: For research use only, not for human or veterinary use. 1.3 Details of the Supplier of the Safety Data Sheet: **Company Name:** Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 Web site address: www.caymanchem.com Information: Cayman Chemical Company +1 (734)971-3335 1.4 **Emergency telephone number:** CHEMTREC Within USA and Canada: +1 (800)424-9300 **Emergency Contact:** CHEMTREC Outside USA and Canada: +1 (703)527-3887 Section 2. Hazards Identification 2.1 **Classification of the Substance or Mixture:** 2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]: Flammable Liquids, Category 2 Serious Eye Damage/Eye Irritation, Category 2 Specific Target Organ Toxicity (single exposure), Category 3 2.2 Label Elements: 2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]: **GHS Signal Word:** Danger **GHS Hazard Phrases:** EUH066: Repeated exposure may cause skin dryness or cracking. H225: Highly flammable liquid and vapor. H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness. **GHS Precaution Phrases:** P210: Keep away from {heat/sparks/open flames/hot surfaces}. - No smoking. P261: Avoid breathing {dust/fume/gas/mist/vapors/spray}. P264: Wash {hands} thoroughly after handling. P280: Wear {protective gloves/protective clothing/eye protection/face protection}. **GHS Response Phrases:** P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy



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 to do. Continue rinsing.
 P312: Call a POISON CENTER or doctor/physician if you feel unwell.

 P337+313: If eye irritation persists, get medical advice/attention.
 GHS Storage and Disposal Phrases:

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

2.3 Adverse Human Health Causes serious eye irritation.

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

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

May cause drowsiness or dizziness.

May cause skin or respiratory system irritation.

Repeated exposure may cause skin dryness or cracking.

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

#### Section 3. Composition/Information on Ingredients

CAS # / RTECS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
107615-77-0 NA	11.beta13,14-dihydro-15-keto Prostaglandin F2.alpha.	0.05 %	NA NA	Acute Tox.(O) 4: H302 Toxic Repro. 1B: H360
79-20-9 Al9100000	Methyl acetate	99.95 %	201-185-2 607-021-00-X	Flam. Liq. 2: H225 Eye Damage 2: H319 STOT (SE) 3: H335 H336

#### Section 4. First Aid Measures

4.1 Description of First Aid No data available.

Measures: 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 15 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 15 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.

Important Symptoms and Exposure may cause: coughing, dizziness, drowsiness, headache, narcosis, optic nerve atrophy,
 Effects, Both Acute and chest tightness.

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			Section 5.	Fire Fighting Meas	sures				
5.1	Suitable	e Extinguishing	Use alcohol-resistant	foam, carbon dioxide, water,	or dry chemical spray.				
	Media:	: Use water spray to cool fire-exposed containers.							
	Unsuita	<b>itable Extinguishing</b> A solid water stream may be inefficient.							
	Media:								
5.2	Flamma	Flammable Properties and Can release vapors that form explosive mixtures at temperatures at or above the flash point.							
	Hazard	s:	Container explosion r	nay occur under fire condition	S.				
			Emits toxic fumes und	der fire conditions.					
			Sensitive to static disc	charge.					
			Vapors can travel to a	a source of ignition and flash b	back.				
	Flash P	t:	-10.00 C Method Us	sed: Closed Cup					
	Explosi	ve Limits:	LEL: 3.1% at	25.0 C UEL: 16.0%	at 25.0 C				
	Autoigr	nition Pt:	455.00 C						
5.3	Fire Fig	hting Instructions	:As in any fire, wear se	elf-contained breathing appara	atus pressure-demand (NIOS	H approved or			
			equivalent), and full p	rotective gear to prevent cont	act with skin and eyes.				
			Note: Flammable as o	diluted in methyl acetate.					
			Section 6. Ac	cidental Release M	easures				
6.1	Protect	ive Precautions,	Avoid breathing vapo	ors and provide adequate vent	ilation.				
		•	• ·	t, wear a NIOSH approved se		atus, or respirator,			
		ency Procedures:		onal protection (rubber boots,					
6.2	Enviror	-		elease into the environment,		<b>o</b> ,			
0.2	Precaut								
6.3			r Contain spill and coll	ect as appropriate					
0.0			-	al waste container for disposa	I in accordance with local rec	ulations.			
	Up:		.9			,			
	•		Section 7	Handling and Stor	ade				
<b></b> 7.1	Precaut	ions To Be Taken		fume/gas/mist/vapours/spray.	490				
	in Hand		Avoid prolonged or re						
	mmane		Keep away from sources of ignition.						
				neasures against static discha	rge.				
7.2	Precaut	tions To Be Taken	Keep away from heat	0	0				
	in Stori		Keep container tightly	• •					
		0		, with information listed on the product insert.					
	Other P	Precautions: Protect from moisture.							
			tion 9 Expansion	ra Cantrala/Daraan	al Drataction				
	-		uon o. Exposu	re Controls/Person					
8.1	-	re Parameters:			1	1_			
CAS	#	Partial Chemical		Britain EH40	France VL	Europe			
1076	615-77-0	11.beta13,14-dil Prostaglandin F2.	-	No data.	No data.	No data.			
79	9-20-9	Methyl acetate		TWA: 616 mg/m3 (200 ppm) STEL: 770 mg/m3 (250 ppm)	TWA: 610 mg/m3 (200 ppm) STEL: 760 mg/m3 (250 ppm)	No data.			
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	HEMICAL			r 2.aipii			es Revision: 09/07/2007
CAS	#	Partial Chemical	Name	OSHA TWA	ACGI	I TWA	Other Limits
1076	15-77-0	11.beta13,14-dih Prostaglandin F2.a		No data.	No data	a.	No data.
79-20-9 Methyl acetate			PEL: 200 ppm	TLV: 2 STEL: 2	00 ppm 250 ppm	No data.	
8.2	Exposur	e Controls:					
8.2.1	Enginee	ering Controls	Use process enclose	ures, local exhaust v	entilation, or other	engineering con	trols to control airborne
	(Ventila	tion etc.):	levels below recomm	nended exposure lin	nits.		
8.2.2	Persona	al protection equip	oment:				
	Eye Pro	tection:	Safety glasses				
	Protecti	ve Gloves:	Compatible chemica	Il-resistant gloves			
	Other P	rotective Clothing	:Lab coat				
	Respira	tory Equipment	NIOSH approved res	spirator, as conditior	ns warrant.		
	(Specify	/ Туре):					
	Work/Hy	ygienic/Maintenan	Do not take internal	у.			
	ce Pract	tices:	Facilities storing or u	utilizing this material	should be equipped	d with an eyewa	sh and a safety showe
			Wash thoroughly aft	er handling.			
			No data available.				
		S	ection 9. Phys	sical and Che	emical Prope	erties	
9.1	Informat	ion on Basic Phys	sical and Chemical F	Properties			
	Physica	I States:	[ ] Gas	[X]Liquid []S	olid		
	Appeara	ance and Odor:	A solution in	methyl acetate			
	Melting	Point:	No data.				
	Boiling	Point:	No data.				
	Flash Pt	t:	-10.00 C N	lethod Used: Close	ed Cup		
	Evapora	ation Rate:	No data.				
	Explosiv	ve Limits:	LEL: 3.1%	at 25.0 C	UEL: 16.0%	at 25.0 C	
	Vapor P	ressure (vs. Air o	<b>mm</b> 173 MM_H	G at 20.0 C			
	Hg):						
	Vapor D	ensity (vs. Air = 1	): No data.				
	Specific	Gravity (Water =	1): No data.				
	Solubili	ty in Water:	No data.				
	Autoign	ition Pt:	455.00 C				
9.2	Other Inf	formation					
		Volatile:	No data.				
		ar Formula & Wei		354.5			
			Section 10	). Stability an	d Reactivity		
10.1	Reactivi	ity:	No data available.	-			
10.2	Stability	<i>/</i> :	Unstable [ ] Sta	able [ X ]			
10.3	Stability	v Note(s):	Stable if stored in ac	cordance with inform	mation listed on the	product insert.	
	Polyme	rization:	Will occur [ ] W	/ill not occur [ X ]			
10.4	Conditio	ons To Avoid:	heat, flames and spa	arks			
10.5		atibility - Materials	•				
-	To Avoi	-	alkalis				
			nitrates				
			strong oxidizing age	nts			
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10.6	Hazardo		carbon dioxide					
Decomposition Or		carbon monox	de					
Byproducts:								
			Section	11. Toxicologic	al Informa	ation		
1.1	Informat	ion on	The toxicologic	al effects of this product	have not beer	thoroughly st	udied.	
	Toxicolo	gical Effects:	Methyl Acetate	e - Toxicity Data: Oral LD	50 (rat): >5,00	0 mg/kg; Oral I	LD50 (rabbit):	3,705 mg/kg;
				obit): >5,000 mg/kg; Inha	-	-	-	
			-	e - Irritation Data: Skin (ra	abbit): 500 mg	(24h) mild; Eye	es (rabbit): 100	) mg (24h)
			moderate;					
		Toxicological	-	gistry of Toxic Effects of		stances (RTEC	CS) data is pre	esented here.
	Effects:			ry in RTECS for complet RTECS Number: Al910				
Caroli	i - i tu		NTP? No	IARC Monographs? No		aulotod2 No		
	nogenicity	i		<b>.</b>		egulated? No		
		Hazardous Com		•	NTP	IARC	ACGIH	OSHA
	15-77-0		hydro-15-keto P	rostaglandin F2.alpha.	n.a.	n.a.	n.a.	n.a.
79	-20-9	Methyl acetate			n.a.	n.a.	n.a.	n.a.
			Sectio	n 12. Ecological	Informat	ion		
12.1	Toxicity	:	Avoid release	nto the environment.				
			Runoff from fire	e control or dilution wate	r may cause po	ollution.		
2.2	Persiste	nce and	No data availa	ble.				
	Degrada	bility:						
2.3	Bioaccu	mulative	No data availa	ble.				
	Potentia	l:						
12.4 Mobility in Soil: No data available.								
12.5								
	assessn	nent:						
12.6 Other adverse effects: No data available.								
			Section	13. Disposal C	onsiderati	ions		
13.1	Waste D	isposal Method:		ordance with local, state				
			Sectio	on 14. Transport	Informat	ion		
14.1					monnat			
		RANSPORT (US I	-	state Calution				
	OT Prope	r Shipping Name:	3	etate Solution	חוו			
	N/NA Nun		3 1231		Packing Grou	n.	II	
0	IN/INA INUI	ilber.	1231		Facking Grou	<b>р.</b>		
			FLAMMABLE LIQUI					
			3					
14.1	LAND T	RANSPORT (Euro	opean ADR/RIF	)):				
		-	-	etate Solution				
ADR/RID Shipping Name: UN Number:			1231		Packing Grou	D:	11	
-	azard Cla		-	ABLE LIQUID				
••								
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14.3 AIR TRA	NSPORT (ICAO/I	ATA):						
ICAO/IATA Shipping Name:		Methyl Acetate Solution						
UN Number:		1231	Packing Grou	p:	II			
Hazard Class:		3 - FLAMMABLE LIQUID	IATA Classific	cation:	3			
Additional Tran	sport	Transport in accordance with loc	al, state, and federal	regulations.				
Information:	-	When sold in quantities of less the	han or equal to 1 mL,	or 1 g, with an Exce	pted Quantity Code of			
		E1, E2, E4, or E5, this item mee	ts the De Minimis Qu	antities exemption, p	er IATA 2.6.10.			
		Therefore packaging does not ha	ave to be labeled as	Dangerous Goods/Ex	cepted Quantity.			
		Section 15. Regula	atory Informat	ion				
EPA SARA (Su	perfund Amendm	ents and Reauthorization Act o	f 1986) Lists					
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)			
107615-77-0	11.beta13,14-dil F2.alpha.	hydro-15-keto Prostaglandin	No	No	No			
79-20-9	Methyl acetate		No	No	No			
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or S	State Lists				
107615-77-0	11.beta13,14-dil F2.alpha.	hydro-15-keto Prostaglandin	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No					
79-20-9	Methyl acetate		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 4 Test, 8A PAIR; CA PROP.65: No					
Regulatory Info Statement:	rmation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.						
		Section 16. Oth	er Informatior	ו				
Revision Date:		04/22/2015	4/22/2015					
Additional Infor	mation About	No data available.						
This Product:								
Company Policy or Disclaimer:		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.						

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