

C		Revision:	08/19/2015
	Supersedes	Revision:	04/28/2015

	CHEMICAL		
		ding to Regulation (EC) No. 1907/2006 as amended by (
	Section 1. Id	entification of the Substance/Mixture and of th	ne Company/Undertaking
.1	Product Code:	16016	
	Product Name:	Prostaglandin F2,alpha. ethyl amide	
	Synonyms:	N-ethyl-9.alpha.,11.alpha.,15S-trihydroxy-prost PGF2.alphaNEt;	ta-5Z,13E-dien-1-amide; Dinoprost ethyl amide
1.2	Relevant identified uses of t	he substance or mixture and uses advised aga	ainst:
	Relevant identified uses:	For research use only, not for human or vetering	nary use.
1.3	Details of the Supplier of the	e 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 numb	per:	
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887
		Section 2. Hazards Identifica	ation
2.1		jory 2 Irritation, Category 2	
2.1	Flammable Liquids, Categ Serious Eye Damage/Eye Toxic To Reproduction, C	jory 2 Irritation, Category 2 ategory 1B	
	Flammable Liquids, Categ Serious Eye Damage/Eye Toxic To Reproduction, C Specific Target Organ Tox	Jory 2 Irritation, Category 2 ategory 1B kicity (single exposure), Category 3	
	Flammable Liquids, Catego Serious Eye Damage/Eye Toxic To Reproduction, C Specific Target Organ Tox Label Elements:	jory 2 Irritation, Category 2 ategory 1B	
	Flammable Liquids, Catego Serious Eye Damage/Eye Toxic To Reproduction, C Specific Target Organ Tox Label Elements: GHS Signal Word: GHS Hazard Phrases: EUH066: Repeated exposu	Jory 2 Irritation, Category 2 ategory 1B kicity (single exposure), Category 3 Danger re may cause skin dryness or cracking.	
	Flammable Liquids, Catego Serious Eye Damage/Eye Toxic To Reproduction, C Specific Target Organ Tox Label Elements: GHS Signal Word: GHS Hazard Phrases: EUH066: Repeated exposu H225: Highly flammable liqu	pory 2 Irritation, Category 2 ategory 1B kicity (single exposure), Category 3 Danger re may cause skin dryness or cracking. uid and vapor.	
	Flammable Liquids, Catego Serious Eye Damage/Eye Toxic To Reproduction, C Specific Target Organ Tox Label Elements: GHS Signal Word: GHS Hazard Phrases: EUH066: Repeated exposu H225: Highly flammable liqu H319: Causes serious eye i	pory 2 Irritation, Category 2 ategory 1B kicity (single exposure), Category 3 Danger re may cause skin dryness or cracking. aid and vapor. rritation.	
	Flammable Liquids, Catego Serious Eye Damage/Eye Toxic To Reproduction, C Specific Target Organ Tox Label Elements: GHS Signal Word: GHS Hazard Phrases: EUH066: Repeated exposu H225: Highly flammable liqu H319: Causes serious eye i H336: May cause drowsines	pory 2 Irritation, Category 2 ategory 1B kicity (single exposure), Category 3 Danger re may cause skin dryness or cracking. aid and vapor. rritation. ss or dizziness.	
	Flammable Liquids, Catego Serious Eye Damage/Eye Toxic To Reproduction, C Specific Target Organ Tox Label Elements:	pory 2 Irritation, Category 2 ategory 1B kicity (single exposure), Category 3 Danger re may cause skin dryness or cracking. aid and vapor. rritation. ss or dizziness.	
	Flammable Liquids, Catego Serious Eye Damage/Eye Toxic To Reproduction, C Specific Target Organ Tox Label Elements: GHS Signal Word: GHS Hazard Phrases: EUH066: Repeated exposu H225: Highly flammable liqu H319: Causes serious eye i H336: May cause drowsines H360: May damage fertility GHS Precaution Phrases:	pory 2 Irritation, Category 2 ategory 1B ategory 1B ateicity (single exposure), Category 3 Danger re may cause skin dryness or cracking. aid and vapor. rritation. ss or dizziness. or the unborn child.	
	Flammable Liquids, Catego Serious Eye Damage/Eye Toxic To Reproduction, C Specific Target Organ Tox Label Elements: GHS Signal Word: GHS Hazard Phrases: EUH066: Repeated exposu H225: Highly flammable liqu H319: Causes serious eye i H336: May cause drowsines H360: May damage fertility GHS Precaution Phrases: P201: Obtain special instruct	pory 2 Irritation, Category 2 ategory 1B dicity (single exposure), Category 3	od.
	Flammable Liquids, Catego Serious Eye Damage/Eye Toxic To Reproduction, C Specific Target Organ Tox Label Elements:	pory 2 Irritation, Category 2 ategory 1B kicity (single exposure), Category 3	
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	Flammable Liquids, Catego Serious Eye Damage/Eye Toxic To Reproduction, C Specific Target Organ Tox Label Elements: GHS Signal Word: GHS Hazard Phrases: EUH066: Repeated exposu H225: Highly flammable liqu H319: Causes serious eye i H336: May cause drowsines H360: May damage fertility GHS Precaution Phrases: P201: Obtain special instruct P202: Do not handle until al P210: Keep away from {hea P261: Avoid breathing {dust P264: Wash {hands} thorout	pory 2 Irritation, Category 2 ategory 1B cicity (single exposure), Category 3	



Revision: 08/19/2015 Supersedes Revision: 04/28/2015

	P304+340: IF INHALED:	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	P305+351+338: IF IN EY	ES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy
	to do. Continue rinsing.	
	P308+313: IF exposed or	r concerned: Get medical attention/advice.
	P312: Call a POISON CE	NTER or doctor/physician if you feel unwell.
	P337+313: If eye irritatior	n persists, get medical advice/attention.
	GHS Storage and Dispo	osal 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 adverse reproductive effects in males and/or females.
		May cause drowsiness or dizziness.
		May cause gastrointestinal disturbances.
		May cause skin or respiratory system irritation.
		May damage fertility or the unborn child.
		May stimulate contraction of intestinal and reproductive smooth muscle.
		Repeated exposure may cause skin dryness or cracking.
		This chemical has the potential to induce premature labor or abortion.
		To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Section 3. Composition/Information on Ingredients

CAS#/	Hazardous Components (Chemical Name)/	Concentration	EC No./	GHS Classification
RTECS #	REACH Registration No.		EC Index No.	
54130-36-8	Prostaglandin F2.alpha. ethyl amide	1.0 %	NA	Acute Tox.(O) 4: H302
NA			NA	Toxic Repro. 1B: H360
79-20-9	Methyl acetate	99.0 %	201-185-2	Flam. Liq. 2: H225
AI9100000			607-021-00-X	Eye Damage 2: H319
				STOT (SE) 3: H335 H336
				EUH066

Section 4. First Aid Measures

4.1 Description of First Aid

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 can cause: diarrhea, dizziness, fever, flushing, headache, hypotension, nausea,
 Effects, Both Acute and shivering, vomiting.
 Delayed: Exposure may cause: coughing, drowsiness, narcosis, optic nerve atrophy, chest tightness.

Multi-region format



	Revision:	08/19/2015
Supersedes	Revision:	04/28/2015

			Section 5.	Fire Fighting Meas	sures			
5.1	Suitabl	e Extinguishing	Use alcohol-resistant	foam, carbon dioxide, water,	or dry chemical spray.			
	Media:		Use water spray to co	ool fire-exposed containers.				
	Unsuita	able Extinguishing	A solid water stream	may be inefficient.				
	Media:							
5.2	Flamma	able Properties an	dCan release vapors th	hat form explosive mixtures at	temperatures at or above th	e flash point.		
	Hazard	S:		may occur under fire condition	S.			
			Emits toxic fumes une					
			Sensitive to static dis	-				
			•	a source of ignition and flash b	back.			
			No data available.					
	Flash P	rt:	-10.00 C Method U	sed: Closed Cup				
	Explos	ve Limits:	LEL: 3.1% at	25.0 C UEL: 16.0%	at 25.0 C			
	Autoig	nition Pt:	455.00 C					
5.3	Fire Fig	hting Instructions	-	elf-contained breathing appara		SH approved or		
				protective gear to prevent cont	act with skin and eyes.			
			Note: Flammable as	diluted in methyl acetate.				
			Section 6. Ac	cidental Release M	easures			
6.1	Protect	ive Precautions,	Avoid breathing vapo	ors and provide adequate vent	tilation.			
	Protect	ive Equipment an	d As conditions warran	nt, wear a NIOSH approved se	elf-contained breathing appar	atus, or respirator,		
	Emerge	ency Procedures:	and appropriate pers	sonal protection (rubber boots,	safety goggles, and heavy r	ubber gloves).		
6.2	Enviror	nmental	Take steps to avoid r	release into the environment,	if safe to do so.			
	Precau	tions:						
6.3	Method	s and Material Fo	r Contain spill and coll	lect, as appropriate.				
	Contair	ment and Cleanir	ngTransfer to a chemic	al waste container for disposa	I in accordance with local reg	julations.		
	Up:							
			Section 7.	Handling and Stor	rage			
7.1	Precau	tions To Be Taken		/fume/gas/mist/vapours/spray.	-			
	in Hand		Avoid prolonged or re					
			Keep away from sour	rces of ignition.				
			Take precautionary m	neasures against static discha	rge.			
7.2	Precau	tions To Be Taken	Keep away from heat	t, sparks, and flame.				
	in Stori	ng:	g: Keep container tightly closed.					
			Store in accordance with information listed on the product insert.					
	Other F	recautions:	Protect from moisture	9.				
		Sec	tion 8. Exposu	ire Controls/Person	al Protection			
8.1	Exposu	re Parameters:						
CAS	#	Partial Chemical	Name	Britain EH40	France VL	Europe		
541	30-36-8	Prostaglandin F2.	alpha. ethyl amide.	No data.	No data.	No data.		
79	9-20-9	Methyl acetate		TWA: 616 mg/m3 (200 ppm)	TWA: 610 mg/m3 (200 ppm)	No data.		
				STEL: 770 mg/m3 (250 ppm)	STEL: 760 mg/m3 (250 ppm)			
						-		



Revision: 08/19/2015

CAS	#	Partial Chemica	Name	OSHA TWA	ACGIH TWA	Other Limits
5413	30-36-8	Prostaglandin F2	alpha. ethyl amide.	No data.	No data.	No data.
79	-20-9	Methyl acetate		PEL: 200 ppm	TLV: 200 ppm STEL: 250 ppm	No data.
3.2	Exposu	re Controls:		_		
.2.1	Engine	ering Controls tion etc.):	-	ures, local exhaust venti nended exposure limits.	lation, or other engineering co	ntrols to control airbor
3.2.2	Person	al protection equi	pment:			
	Eye Pro	otection:	Safety glasses			
	Protect	ive Gloves:	Compatible chemica	al-resistant gloves		
	Other P	rotective Clothing	g:Lab coat			
	-	itory Equipment y Type):	NIOSH approved re	spirator, as conditions w	varrant.	
	Work/H	ygienic/Maintena	n Do not take internall	ly.		
	ce Prac	tices:	-	-	ould be equipped with an eyew	ash and a safety show
			Wash thoroughly aft	ter handling.		
			No data available.			
		S	ection 9. Phy	sical and Chem	ical Properties	
9.1	Informat	tion on Basic Phy	sical and Chemical I	Properties		
		al States:		[X] Liquid [] Solid		
	Appear	ance and Odor:	A solution in	methyl acetate		
	Melting	Point:	No data.			
	Boiling	Point:	No data.			
	Flash P	t:	-10.00 C N	Nethod Used: Closed C	up	
	-	ation Rate:	No data.			
		ability (solid, gas)				
		ve Limits:	LEL: 3.1%		EL: 16.0% at 25.0 C	
	•	Pressure (vs. Air o	ormm 173 MM_H	G at 20.0 C		
	Hg): Von or F					
	-	Density (vs. Air =)				
	•	c Gravity (Water =				
		ity in Water:	No data.			
	-	nition Pt:	455.00 C			
9.2		formation				
		t Volatile:	No data.	004.0		
	woiecu	lar Formula & We	•			
				 Stability and I 	Reactivity	
10.1	Reactiv	-	No data available.			
10.2	Stability			able [X]	an listed on the much set in out	
10.3	-	y Note(s):			on listed on the product insert.	
	-	rization:		Vill not occur [X]		
10.4		ons To Avoid:	heat, flames and spa	arks		
10.5	-	atibility - Material	s acids alkalis			
	To Avoi	10.	nitrates			
			strong oxidizing age	ents		
						Multi-region for



	Revision:	08/19/2015
Supersedes	Revision:	04/28/2015

10.6	Hazardous		carbon dioxide					
	Decompos		carbon monoxide					
	Byproduct							
	,,		Castion 11 Taxiaal		-f - 1/20 -			
			Section 11. Toxicol	<u> </u>				
1.1	Informatio		The toxicological effects of this p					
	Toxicolog	ical Effects:	Methyl Acetate - Toxicity Data: C					3,705 mg/kg;
			Skin LD50 (rabbit): >5,000 mg/kg		•			(= (1))
			Methyl Acetate - Irritation Data: S	skin (rabbit)	: 500 mg	(24h) mild; Ey	es (rabbit): 100) mg (24h)
			moderate;			(
		oxicological	Only select Registry of Toxic Effe			stances (RIE	CS) data is pre	sented here.
	Effects:		See actual entry in RTECS for co	-				
			Methyl Acetate RTECS Number:			audata dO Na		
	nogenicity:		NTP? No IARC Monograph			egulated? No		
CAS			ponents (Chemical Name)		NTP	IARC	ACGIH	OSHA
		_	alpha. ethyl amide		n.a.	n.a.	n.a.	n.a.
79	-20-9 N	Nethyl acetate			n.a.	n.a.	n.a.	n.a.
			Section 12. Ecolog	gical Inf	ormat	ion		
2.1	Toxicity:		Avoid release into the environme	ent.				
			Runoff from fire control or dilution	n water may	cause po	ollution.		
2.2	Persistend	ce and	No data available.	-	-			
	Degradabi							
2.3	Bioaccum	-	No data available.					
	Potential:							
2.4	Mobility in	Soil	No data available.					
2.5	-		No data available.					
2.5	assessme		NU Uala available.					
2.6		erse effects:	No data available.					
2.0					• • •			
			Section 13. Dispos					
3.1	Waste Dis	posal Method:	Dispose in accordance with local	, state, and	federal re	egulations.		
			Section 14. Trans	sport Inf	ormat	ion		
14.1	LAND TR	ANSPORT (US I	DOT):					
D	OT Proper S	Shipping Name:	Methyl Acetate Solution					
D	OT Hazard	Class:	3 FLAMMABL	e liquid.				
U	N/NA Numb	er:	1231	Pack	ing Grou	p:	II	
			FLAMMABLE LIQUID					
			3					
14.1	LAND TR	ANSPORT (Euro	opean ADR/RID):					
		pping Name:	Methyl Acetate Solution					
	N Number:		1231	Pack	ing Grou	p:	П	
	azard Class	:	3 - FLAMMABLE LIQUID		-	-		
							Ν	Iulti-region for



Revision: 08/19/2015 Supersedes Revision: 04/28/2015

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:	Methyl Acetate Solution		
UN Number:	1231	Packing Group:	II
Hazard Class:	3 - FLAMMABLE LIQUID	IATA Classification:	3
Additional Transport	Transport in accordance with loca	I, state, and federal regulations.	
Information:	When sold in quantities of less that	an or equal to 1 mL, or 1 g, with ar	n Excepted Quantity Code of
	E1, E2, E4, or E5, this item meets	the De Minimis Quantities exemp	otion, per IATA 2.6.10.
	Therefore packaging does not have	ve to be labeled as Dangerous Go	ods/Excepted Quantity.

Section 15. Regulatory Information

CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
54130-36-8		alpha. ethyl amide	No	No	No
79-20-9 Methyl acetate			No	No	No
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA o	r State Lists	
54130-36-8	54130-36-8 Prostaglandin F2.alpha. ethyl amide		CAA HAP,ODC: PROP.65: No	No; CWA NPDES	: No; TSCA: No; CA
79-20-9 Methyl acetate			CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 4 Test, 8A PAIR; CA PROP.65: No		
Regulatory Inf Statement:	ormation	This SDS was prepared in acco No.1272/2008.	cordance with 29 CFR 1910.1200 and Regulation (EC)		
		Section 16. Otl	ner Informatio	on	
Revision Date:	:	08/19/2015			
Additional Info This Product:	ormation About	No data available.			
Company Policy or Disclaimer: DISC curre expre		DISCLAIMER: This information currently available to us. However express or implied, with respect use. Users should make their of	ver, we make no wa t to such informatior	rranty of merchanta , and we assume r	ability or any other warranty no liability resulting from its