

Revision: 08/19/2016

	accor	ding to Regulation (EC) No. 1907/2006 as amended by	(EC) No. 1272/2008						
	Section 1. Id	entification of the Substance/Mixture and of t	he Company/Undertaking						
1.1	Product Code:	19348							
	Product Name:	13,14-dihydro-15-keto Prostaglandin E2-d9							
1.2	Relevant identified uses of	the substance or mixture and uses advised ag	gainst:						
	Relevant identified uses:	For research use only, not for human or veter	inary 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: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887						
		Section 2. Hazards Identific	cation						
2.1	Classification of the Substa	nce or Mixture:							
	Flammable Liquids, Categ	jory 2							
	Serious Eye Damage/Eye Irritation, Category 2								
	Toxic To Reproduction, C	Toxic To Reproduction, Category 1B							
	Specific Target Organ Tox	cicity (single exposure), Category 3							
2.2	Label Elements:								
	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.								
	H360: May damage fertility or the unborn child.								
	GHS Precaution Phrases:								
	P201: Obtain special instructions before use.								
	P202: Do not handle until all safety precautions have been read and understood.								
	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:								
	•	ves/protective clothing/eye protection/face protect							
	•								



	to do. Continue rinsing.					
	P308+313: IF exposed or concerned: Get medical attention/advice.					
	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 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.				
	Sec	tion 3. Composition/Information on Ingredients				

CAS # / RTECS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
NA NA	13,14-dihydro-15-keto Prostaglandin E2-d9	0.1 %	NA NA	Acute Tox.(O) 4: H302 Toxic Repro. 1B: H360
79-20-9 Al9100000	Methyl acetate	99.9 %	201-185-2 607-021-00-X	Flam. Liq. 2: H225 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.
4.2	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.



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		Section 5.	Fire Fighting Me	easures				
5.1 Suital	ble Extinguishing	Use alcohol-resistant	foam, carbon dioxide, wa	ter, or dry chemical spray.				
Media	a:	Use water spray to co	ool fire-exposed containers	S.				
Unsu Media		A solid water stream	may be inefficient.					
5.2 Flamr	mable Properties and	d Can release vapors th	hat form explosive mixture	es at temperatures at or above th	e flash point.			
Hazar	rds:	Container explosion r	may occur under fire cond	itions.				
		Emits toxic fumes une						
		Sensitive to static dis	-					
			a source of ignition and fla	ash back.				
		No data available.						
Flash		-10.00 C Method Us	-					
Explo	osive Limits:	LEL: 3.1% at	25.0 C UEL: 16.0	% at 25.0 C				
Autoi	ignition Pt:	455.00 C						
5.3 Fire F	Fighting Instructions	equivalent), and full p	•	pparatus pressure-demand (NIOS contact with skin and eyes.	SH approved or			
		Section 6. Ac	cidental Release	Measures				
6.1 Prote	ective Precautions,	Avoid breathing vapo	ors and provide adequate	ventilation.				
Prote	ective Equipment and	As conditions warran	it, wear a NIOSH approve	d self-contained breathing appar	atus, or respirator,			
Emer	gency Procedures:	and appropriate pers	onal protection (rubber bo	oots, safety goggles, and heavy r	ubber gloves).			
6.2 Envir	onmental	Take steps to avoid r	release into the environme	ent, if safe to do so.				
Preca	autions:							
		s and Material For Contain spill and collect, as appropriate.						
Conta	ainment and Cleanin	ment and CleaningTransfer to a chemical waste container for disposal in accordance with local regulations.						
Up:								
		Section 7.	Handling and S	Storage				
7.1 Preca	autions To Be Taken	Avoid breathing dust/	fume/gas/mist/vapours/sp	oray.				
in Ha	ndling:	Avoid prolonged or re	peated exposure.					
		Keep away from sources of ignition.						
			neasures against static dis	scharge.				
		Keep away from heat	•					
in Sto	oring:	Keep container tightly		ha marakant ina ant				
0.1			with information listed on t	ne product insert.				
Other	r Precautions:	Protect from moisture).					
		ion 8. Exposu	re Controls/Pers	onal Protection				
-	sure Parameters:				1_			
CAS #	Partial Chemical	Name	Britain EH40	France VL	Europe			
NA	13,14-dihydro-15- E2-d9	keto Prostaglandin	No data.	No data.	No data.			
79-20-9	Methyl acetate		TWA: 616 mg/m3 (200 ppm STEL: 770 mg/m3 (250 ppm		No data.			
	E2-d9	keto Prostaglandin	TWA: 616 mg/m3 (200 ppn	n) TWA: 610 mg/m3 (200 ppm)				

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CAS	#	Partial Chemical N	lame	OSHA TWA	ACGIH TWA	Other Limits	
		13,14-dihydro-15-keto Prostaglandin E2-d9		No data.	No data.	No data.	
79-20-9 Methyl acetate				PEL: 200 ppm	TLV: 200 ppm STEL: 250 ppm	No data.	
.2	Exposu	re Controls:			•	- ·	
.2.1	Enginee	ering Controls	Use process enclos	ures, local exhaust ventil	ation, or other engineering co	ontrols to control airbo	
	(Ventila	tion etc.):	evels below recomm	nended exposure limits.			
.2.2	Person	al protection equip	ment:				
	Eye Pro	otection:	Safety glasses				
	Protect	ive Gloves:	Compatible chemica	al-resistant gloves			
	Other P	rotective Clothing:	Lab coat				
	Respira	tory Equipment	NIOSH approved rea	spirator, as conditions wa	arrant.		
	(Specify	у Туре):					
	Work/H	ygienic/Maintenan	Do not take internall	у.			
	ce Prac	tices:	Facilities storing or u	utilizing this material sho	uld be equipped with an eyev	vash and a safety show	
			Wash thoroughly aft	er handling.			
			No data available.				
		Se	ction 9. Phy	sical and Chemi	ical Properties		
.1	Informat	tion on Basic Physi	cal and Chemical F	Properties			
	Physica	al States:	[] Gas	[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	lethod Used: Closed Co	qu		
	Evapora	ation Rate:	No data.				
	Flamma	ability (solid, gas):	No data avai	lable.			
	Explosi	ve Limits:	LEL: 3.1%	at 25.0 C UB	EL: 16.0% at 25.0 C		
	-	Pressure (vs. Air or	mm 173 MM_H	G at 20.0 C			
	Hg): Vapor F	Density (vs. Air = 1):	No data.				
	-						
	-	c Gravity (Water = 1): No data. No data.				
		ity in Water:					
	-	nition Pt:	455.00 C				
.2		formation					
		t Volatile:	No data.				
	Molecu	lar Formula & Weig					
			Section 10). Stability and F	Reactivity		
0.1	Reactiv		No data available.				
0.2	Stability			able [X]			
0.3	Stability Note(s): Stable if stored in accordance with information listed on the product insert.						
	Polymerization: Will occur [] Will not occur [X]						
0.4	Conditi	ons To Avoid:	heat, flames and spa	arks			
0.5	Incomp	atibility - Materials	acids				
	To Avoi		alkalis				
			nitrates				
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			strong oxidizing agents						
10.6 Hazardous			carbon dioxide						
Decomposition or			carbon monoxide						
	Byproducts:								
			Section 11. Toxicological	Informa	ation				
11.1	Informati	ion on	The toxicological effects of this product ha	ive not beer	n thoroughly st	udied.			
	Toxicolo	gical Effects:	Methyl Acetate - Toxicity Data: Oral LD50		0.0		3,705 mg/kg;		
			Skin LD50 (rabbit): >5,000 mg/kg; Inhalati	,		•			
			Methyl Acetate - Irritation Data: Skin (rabb moderate;	oit): 500 mg	(24h) mild; Eye	es (rabbit): 100) mg (24h)		
	Chronic	Toxicological	Only select Registry of Toxic Effects of Ch	nemical Sub	stances (RTE	CS) data is pre	sented here.		
	Effects:		See actual entry in RTECS for complete in						
			Methyl Acetate RTECS Number: Al91000						
Carci	nogenicity	:	NTP? No IARC Monographs? No	OSHA Re	egulated? No				
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
	NA	13,14-dihydro-15	-keto Prostaglandin E2-d9	n.a.	n.a.	n.a.	n.a.		
79	-20-9	Methyl acetate		n.a.	n.a.	n.a.	n.a.		
	·		Section 12. Ecological In	nformat	ion	•	·		
12.1	Toxicity:		Avoid release into the environment.						
			Runoff from fire control or dilution water may cause pollution.						
12.2	Persister	nce and	No data available.						
	Degradal	bility:							
12.3	Bioaccur	nulative	No data available.						
	Potential	:							
12.4	Mobility	in Soil:	No data available.						
12.5	Results o	of PBT and vPvB	3 No data available.						
	assessm	ent:							
12.6	Other ad	verse effects:	No data available.						
			Section 13. Disposal Cor	nsiderat	ions				
13.1	Waste Di	sposal Method:	Dispose in accordance with local, state, and	nd federal re	egulations.				
			Section 14. Transport I	nformat	ion				
14.1	LAND T	RANSPORT (US I	DOT):						
D	OT Proper	Shipping Name:	Methyl Acetate Solution						
D	OT Hazard	l Class:	3 FLAMMABLE LIQUIE)					
U	UN/NA Number:		1231 Pa	cking Grou	p:	II			
			ELOMADEL LIQUID						



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14.1 LAND T	RANSPORT (Euro	opean ADR/RID):					
ADR/RID Shipping Name:		Methyl Acetate Solution					
UN Number:		1231	Packing Group:		II		
Hazard Class:		3 - FLAMMABLE LIQUID	3 - FLAMMABLE LIQUID				
14.3 AIR TR	ANSPORT (ICAO/	IATA):					
ΙCAO/ΙΑΤΑ	Shipping Name:	Methyl Acetate Solution					
UN Numbe	r:	1231	Packing Grou	ıp:	II		
Hazard Cla	ss:	3 - FLAMMABLE LIQUID	IATA Classification:		3		
Additional Trai	nsport	Transport in accordance with lo	cal, state, and federa	l regulations.			
Information:		When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of					
		E1, E2, E4, or E5, this item mee	ets the De Minimis Qu	antities exemption, p	per IATA 2.6.10.		
		Therefore packaging does not h	ave to be labeled as	Dangerous Goods/E	xcepted Quantity.		
		Section 15. Regul	atory Informa	tion			
EPA SARA (Su	perfund Amendm	nents and Reauthorization Act of	of 1986) Lists				
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
NA	13,14-dihydro-15	-keto Prostaglandin E2-d9	No	No	No		
79-20-9	Methyl acetate		No	No	No		
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or S	+ State Lists			
NA		-keto Prostaglandin E2-d9	CAA HAP,ODC: N	o; 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	ormation	This SDS was prepared in acco	rdance with 29 CFR	1910.1200 and Regu	lation (EC)		
Statement:		No.1272/2008.					
		Section 16. Oth	er Information	า			
Revision Date:		08/19/2016					
Additional Info	mation About	No data available.					
This Product:							
Company Policy or Disclaimer:		DISCLAIMER: This information currently available to us. Howev express or implied, with respect use. Users should make their of their particular purposes.	er, we make no warra to such information,	anty of merchantabilit and we assume no lia	y or any other warranty, ability resulting from its		