

Revision: 04/22/2015

Supersedes Revision: 04/11/2009 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:** 13730 **Product Name:** 15(S)-15-methyl Prostaglandin E1 Synonyms: 9-oxo-11.alpha.,15S-dihydroxy-15-methyl-prost-13E-en-1-oic acid; 15(S)-15-methyl PGE1; 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: Emergency Contact:** CHEMTREC Within USA and Canada: +1 (800)424-9300 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 **Toxic To Reproduction, 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. H361: Suspected of damaging 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:** P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with



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CAS#	/ Hazardous C	omponents (Chemical Name)/ Concentration EC No./ GHS Classification						
	S	ection 3. Composition/Information on Ingredients						
		To the best of our knowledge, the toxicological properties have not been thoroughly investigated.						
		Toxic if swallowed.						
		Suspected of damaging fertility or the unborn child.						
		Repeated exposure may cause skin dryness or cracking.						
	May cause skin or respiratory system irritation.							
		May cause drowsiness or dizziness.						
	May be harmful by inhalation or skin absorption.							
		Material may be irritating to the mucous membranes and upper respiratory tract.						
		Exposure may cause vasodilation and an inhibition of platelet aggregation.						
-	Effects and Symptom							
2.3								
	-	on 7 for Storage and Section 13 for Disposal information.						
	GHS Storage and Di	sposal Phrases:						
	P337+313: If eye irritation persists, get medical advice/attention.							
	P312: Call a POISON	I CENTER or doctor/physician if you feel unwell.						
		or concerned: Get medical attention/advice.						
	to do. Continue rinsing.							
		EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy						
	P304+340: IF INHALI	ED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.						
	water/shower.							

CAS # / RTECS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
35700-26-6 NA	15(S)-15-methyl Prostaglandin E1	0.1 %	NA NA	Acute Tox.(O) 3: H301 Toxic Repro. 2: H361
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

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.
4.2	Important Symptoms and	Exposure may cause: coughing, dizziness, drowsiness, headache, narcosis, optic nerve atrophy,
	Effects, Both Acute and	chest tightness.
	Delayed:	Exposure may cause: Nausea, diarrhea, headache, vomiting, flushing, shivering, hypotension, and dizziness.

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SAFETY DATA SHEET 15(S)-15-methyl Prostaglandin E1

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			Section 5.	. Fire Fighting Mea	asures		
5.1	Suitable	e Extinguishing	Use alcohol-resistan	t foam, carbon dioxide, wate	r, or dry chemical spray.		
	Media:		Use water spray to c	cool fire-exposed containers.			
	Unsuita	ble Extinguishing	A solid water stream	n may be inefficient.			
	Media:						
5.2	Flamma	able Properties an	dCan release vapors	that form explosive mixtures	at temperatures at or above th	e flash point.	
	Hazard	5:	Container explosion	may occur under fire condition	ons.		
			Emits toxic fumes ur	nder fire conditions.			
			Sensitive to static dis	scharge.			
			Vapors can travel to	a source of ignition and flash	n back.		
	Flash P	t:	-10.00 C Method L	Jsed: 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	s: As in any fire, wear	self-contained breathing appa	aratus pressure-demand (NIOS	SH approved or	
	-	U	equivalent), and full	protective gear to prevent co	ntact with skin and eyes.		
			Note: Flammable as	diluted in methyl acetate.			
			Section 6. Ac	cidental Release	Measures		
6.1	Protect	ive Precautions,		oors and provide adequate ve			
0.1					self-contained breathing appar	atus or respirator	
		ency Procedures:			is, safety goggles, and heavy r		
6.2	-	imental		release into the environment		abbol glovoo).	
0.2	Precaut		Take sleps to avoid		i, il sale to uo so.		
6.2			· Contain anill and as	llast as appropriate			
6.3			r Contain spill and co		sal in accordance with local reg	rulations	
		iment and Cleanin				julations.	
	Up:						
			Section 7	. Handling and Sto	orage		
7.1	Precaut	tions To Be Taker	Avoid breathing dust	t/fume/gas/mist/vapours/spra	у.		
	in Hanc	lling:	Avoid prolonged or repeated exposure.				
			Keep away from sources of ignition.				
			Take precautionary	measures against static disch	harge.		
7.2	Precaut	tions To Be Taker	Keep away from hea	at, sparks, and flame.			
	in Stori	ng:	Keep container tight	ly closed.			
			Store in accordance	with information listed on the	e product insert.		
	Other P	recautions:	Protect from moistur	e.			
		Sec	tion 8. Exposi	ure Controls/Perso	nal Protection		
8.1	Exposu	re Parameters:					
CAS	#	Partial Chemical	Name	Britain EH40	France VL	Europe	
3570	0-26-6	15(S)-15-methyl I	Prostaglandin E1	No data.	No data.	No data.	
	-20-9	Methyl acetate		TWA: 616 mg/m3 (200 ppm)	TWA: 610 mg/m3 (200 ppm)	No data.	
19	20-3			STEL: 770 mg/m3 (250 ppm)	STEL: 760 mg/m3 (250 ppm)		
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CAS	#	Partial Chemica	Name	OSHA TWA	ACGIH TWA	Other Limits
35700-26-6 15(S)-15-methyl I			Prostaglandin E1	No data.	No data.	No data.
	-20-9	Methyl acetate		PEL: 200 ppm	TLV: 200 ppm	No data.
	-				STEL: 250 ppm	
3.2 3.2.1	Engine	re Controls: ering Controls ation etc.):		sures, local exhaust venti mended exposure limits.	lation, or other engineering c	ontrols to control airbo
3.2.2	Person	al protection equi	pment:			
	Eye Pro	otection:	Safety glasses			
	Protect	ive Gloves:	Compatible chemic	al-resistant gloves		
	Other P	Protective Clothing	g:Lab coat			
	-	atory Equipment y Type):	NIOSH approved re	espirator, as conditions w	arrant.	
			n Do not take interna	llv.		
	ce Prac			-	uld be equipped with an eyev	vash and a safety show
			Wash thoroughly a	-		-
			No data available.			
		C	ection 0 Dh	reical and Cham	ical Proportion	
			, ,	sical and Chem	ical Fluperlies	
9.1		-	sical and Chemical	-		
	-	al States:	[]Gas	[X] Liquid [] Solid		
		ance and Odor:		n methyl acetate		
	Melting		No data.			
	Boiling		No data.			
	Flash P			Method Used: Closed C	up	
	-	ation Rate:	No data.	‰ at 25.0 C U	EL: 16.0% at 25.0 C	
	=	ive Limits: Pressure (vs. Air c	LEL: 3.19	₀ at 25.0 C 01 HG at 20.0 C	EL. 10.0% at 25.0 C	
	Hg):	ressure (vs. All c		1G at 20.0 C		
	•,	Density (vs. Air = ⁻	1): No data.			
	-	c Gravity (Water =	-			
	•	ity in Water:	No data.			
		nition Pt:	455.00 C			
	-		400.00 C			
9.2						
		t Volatile:	No data.	269 F		
	woiecu	lar Formula & We	-			
			Section 1	0. Stability and F	Reactivity	
10.1	Reactiv	vity:	No data available.			
10.2	Stability	-		table [X]		
10.3	Stability	y Note(s):	Stable if stored in a	accordance with information	on listed on the product inser	t.
	Polyme	erization:	Will occur []	Will not occur [X]		
10.4	Conditi	ons To Avoid:	heat, flames and sp	barks		
10.5	Incomp	atibility - Material	s acids			
	Το Ανο	id:	alkalis			
			nitrates			
			strong oxidizing ag	ents		
10.6	Hazard	ous	carbon dioxide			
						Multi-region for



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	Decomp	osition Or	carbon monoxid	e					
	Byprodu	icts:							
			Section 2	11. Toxicologica	I Informa	ation			
11.1 Information on Toxicological Effects: Chronic Toxicological Effects:		Methyl Acetate - Skin LD50 (rabb Methyl Acetate - moderate; Only select Reg See actual entry	I effects of this product h Toxicity Data: Oral LD5 it): >5,000 mg/kg; Inhala Irritation Data: Skin (rat istry of Toxic Effects of C n n RTECS for complete	0 (rat): >5,00 tion TCLO (h bbit): 500 mg Chemical Sub information.	0 mg/kg; Oral human): 15,000 (24h) mild; Ey	LD50 (rabbit):) mg/m3; es (rabbit): 100) mg (24h)		
Carci	nogenicity	<i>.</i> -	Methyl Acetate RTECS Number: Al9100000 NTP? No IARC Monographs? No OSHA Regulated? No						
CAS		1	ponents (Chemi				ACGIH	OSHA	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	15(S)-15-methyl			n.a.	n.a.	n.a.	n.a.	
	-20-9	Methyl acetate							
79	-20-9				n.a.	n.a.	n.a.	n.a.	
			Section	12. Ecological	Informat	ion			
12.1	Toxicity	:		to the environment. control or dilution water	may cause p	ollution.			
12.2	Persiste Degrada		No data availabl	e.					
12.3	Bioaccu Potentia	mulative I:	No data available.						
12.4	Mobility	in Soil:	No data availabl	le.					
12.5	Results	of PBT and vPvB	No data available.						
	assessm	nent:							
12.6	Other ad	lverse effects:	No data available.						
			Section	13. Disposal Co	nsiderat	ions			
13.1	Waste D	isposal Method:	Dispose in acco	rdance with local, state,	and federal re	egulations.			
			Section	n 14. Transport	Informat	ion			
14.1	LAND T	RANSPORT (US	DOT):						
D	OT Prope	r Shipping Name	: Methyl Acet	ate Solution					
D	OT Hazar	d Class:	3	FLAMMABLE LIQU	ID				
U	N/NA Nun	nber:	1231	Р	acking Grou	p:	II		
			FLEMMBELE HOUD						
14.1		RANSPORT (Eur							
		hipping Name:	-	ate Solution					
-	N Number		1231		acking Grou	p:	II		
H	azard Cla	SS:	3 - FLAMMA	ABLE LIQUID					
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14.3	AIR TRANSPORT (ICAO/IATA):
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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 than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of				
	E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, 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 Components (Chemical Name)		S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
35700-26-6	15(S)-15-methyl Prostaglandin E1		No	No	No		
79-20-9	0-9 Methyl acetate		No	No	No		
CAS # Hazardous Components (Chemical Name)			Other US EPA o	r State Lists	•		
35700-26-6	15(S)-15-methyl	Prostaglandin E1	CAA HAP,ODC: PROP.65: No	No; CWA NPDES	No; TSCA: No; CA		
79-20-9	79-20-9 Methyl acetate			No; CWA NPDES , 8A PAIR; CA PR			
Regulatory InformationThis SDS was prepared in accordStatement:No.1272/2008.			ordance with 29 CFF	R 1910.1200 and R	egulation (EC)		
		Section 16. Ot	her Information	on			
Revision Date	:	04/22/2015					
Additional Info	ormation About	No data available.					
This Product:							
Company Policy or Disclaimer:		DISCLAIMER: This information currently available to us. Howe express or implied, with respec- use. Users should make their their particular purposes.	ever, we make no wa ct to such informatior	rranty of merchanta n, and we assume r	ability or any other warranty, no liability resulting from its		