

# SAFETY DATA SHEET

Multi-region format

15(S)-15-methyl Prostaglandin F2.alpha.

Revision: 04/29/2015 Supersedes Revision: 09/12/2007

			Supersedes Revision: 09/12/2007				
	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:	16743					
	Product Name:	15(S)-15-methyl Prostaglandin F2.alpha.					
	Synonyms: 9.alpha.,11.alpha.,15S-trihydroxy-15-methyl-prosta-5Z,13E-dien-1-oic acid; Carboprost;						
	15(S)-15-methyl PGF2.alpha.; U-32921;						
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.Details of the Supplier of the Safety Data Sheet:						
1.3							
	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 nu	imber:					
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300				
	5 <b>5 1 7</b>	CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
		Section 2. Hazards Identifica	ation				
2.1	Classification of the Sub	stance or Mixture:					
2.1.1	Classification according	to Regulation (EC) No 1272/2008 [CLP]:					
	Flammable Liquids, Ca	ntegory 2					
	Serious Eye Damage/E	ye Irritation, Category 2					
	Toxic To Reproduction, Category 1B						
	Specific Target Organ	Toxicity (single exposure), Category 3					
2.2	Label Elements:						
2.2.1	Labeling according to Regulation (EC) No 1272/2008 [CLP]:						
	$\mathbf{A}  \mathbf{A}  \mathbf{A}$						
	$\mathbf{v}$	V					
	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.						
			22)				
		gloves/protective clothing/eye protection/face protection	קווק.				
	GHS Response Phrase	5:					
			Multi nonion form				

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	ATMICAL				· · · · ·					
			KIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with							
		shower.	Demove victim to fresh air and keep at rest in a position comfortable for breathing							
			Remove victim to fresh air and keep at rest in a position comfortable for breathing.							
			ES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy							
		U U								
		-	r concerned: Get medical attention/advice.							
			NTER or doctor/physician if you feel unwell. n persists, get medical advice/attention.							
		-								
		Storage and Dispo								
			for Storage and Section 13 for Disposal information.							
2.3		e 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 diz							
			May cause gastrointestinal disturbances.							
			May cause skin or respiratory	-						
			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.							
					-					
		Sect	tion 3. Composition	/Information c	on Ingredie	nts				
CAS		-	oonents (Chemical Name)/	Concentration	EC No./	GHS Classification				
RTEC	S #	REACH Registra	tion No.		EC Index No.					
3570 UK802	0-23-3 1000	15(S)-15-methyl Pro	staglandin F2.alpha.	1.0 %	NA NA	Acute Tox.(O) 4: H302 Toxic Repro. 1B: H360				
79-	20-9	Methyl acetate		99.0 %	201-185-2	Flam. Liq. 2: H225				
AI9100	0000				607-021-00-X	Eye Damage 2: H319				
						STOT (SE) 3: H335 H336				
			Section 4. Fi	rst Aid Measu	res					
4.1	Descrip	tion of First Aid	No data available.							
	Measur									
		of Inhalation:	Remove to fresh air. If not bre	athing give artificial	respiration or give	e oxygen by trained personnel.				
	in ouse		Get immediate medical attent	0.0	roopilation of giv	o oxygon by trained perconnel.				
In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at le						minutes Remove contaminated				
		or okin oontaet.	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							
		,								
In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give a						ve anything by mouth to an				
unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do s										
	medical personnel.									
4.2	Importa	int Symptoms and	Exposure may cause: coughing	ng, dizziness, drowsi	ness, headache,	narcosis, optic nerve atrophy,				
	Effects,	Both Acute and	chest tightness.							
Delayed:			Exposure can cause: diarrhea, dizziness, fever, flushing, headache, hypotension, nausea,							
			shivering, vomiting.							
						M14:				
						Multi-region format				



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		Section 5. Fire Fighting Measures					
5.1	Suitable Extinguishing	Suitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.					
	Media:	Use water spray to cool fire-exposed containers.					
	Unsuitable Extinguishin	g A solid water stream may be inefficient.					
	Media:						
5.2	Flammable Properties a	ndCan release vapors that form explosive mixtures at temperatures at or above th	e flash point.				
	Hazards:	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:	-10.00 C Method Used: Closed Cup					
	Explosive Limits:	LEL: 3.1% at 25.0 C UEL: 16.0% at 25.0 C					
	Autoignition Pt:	455.00 C					
5.3	Fire Fighting Instruction	s: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOS	SH approved or				
		equivalent), and full protective gear to prevent contact with skin and eyes.					
		Note: Flammable as diluted in methyl acetate.					
		Section 6. Accidental Release Measures					
6.1	Protoctivo Procoutions	Avoid breathing vapors and provide adequate ventilation					
J. I	Protective Precautions, Avoid breathing vapors and provide adequate ventilation.						
	Protective Equipment a	As conditions warrant, wear a NIOSH approved self-contained breathing appar	atus or respirat				
		nd As conditions warrant, wear a NIOSH approved self-contained breathing appar and appropriate personal protection (rubber boots, safety goggles, and beavy r					
e 0	Emergency Procedures	and appropriate personal protection (rubber boots, safety goggles, and heavy r					
6.2	Emergency Procedures: Environmental						
6.2	Emergency Procedures Environmental Precautions:	and appropriate personal protection (rubber boots, safety goggles, and heavy r Take steps to avoid release into the environment, if safe to do so.					
6.2 6.3	Emergency Procedures: Environmental Precautions: Methods and Material Fo	<ul> <li>and appropriate personal protection (rubber boots, safety goggles, and heavy r Take steps to avoid release into the environment, if safe to do so.</li> <li>br Contain spill and collect, as appropriate.</li> </ul>	ubber gloves).				
-	Emergency Procedures Environmental Precautions: Methods and Material Fo Containment and Cleani	and appropriate personal protection (rubber boots, safety goggles, and heavy r Take steps to avoid release into the environment, if safe to do so.	ubber gloves).				
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6.3 7.1	Emergency Procedures: Environmental Precautions: Methods and Material Fo Containment and Cleani Up: Precautions To Be Take in Handling:	<ul> <li>and appropriate personal protection (rubber boots, safety goggles, and heavy r Take steps to avoid release into the environment, if safe to do so.</li> <li>or Contain spill and collect, as appropriate.</li> <li>ingTransfer to a chemical waste container for disposal in accordance with local rest</li> <li>Section 7. Handling and Storage</li> <li>n Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure. Keep away from sources of ignition.</li> </ul>	ubber gloves).				
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CAS #Partial Chemical Name35700-23-315(S)-15-methyl ProstagF2.alpha.79-20-9Methyl acetate		Partial Chemical Name		OSHA TWA	ACGIH TWA	Other Limits		
				No data.	No data.	No data.		
			PEL: 200 ppm	TLV: 200 ppm STEL: 250 ppm	No data.			
3.2	Exposu	re Controls:		ł	ł			
3.2.1	Enginee	ering Controls	Jse process enclo	osures, local exhaust venti	lation, or other engineering co	ontrols to control airbor		
	(Ventila	tion etc.):	evels below recor	nmended exposure limits.				
3.2.2	Personal protection equipment:							
	Eye Pro	tection:	Safety glasses					
	Protecti	ive Gloves:	Compatible chemi	ical-resistant gloves				
	Other P	rotective Clothing:	_ab coat					
		-		respirator, as conditions w	varrant.			
	(Specify			•				
		ygienic/Maintenan	Do not take intern	ally.				
	ce Prac			-	ould be equipped with an eyew	ash and a safety show		
		N N	Nash thoroughly a	after handling.				
		I	No data available.					
		Se	ction 9. Ph	ysical and Chem	ical Properties			
9.1	Informat	tion on Basic Physi		•	•			
	Physica	al States:	[ ] Gas	[ X ] Liquid [ ] Solid				
	Appeara	ance and Odor:	A solution	in methyl acetate				
	Melting	Point:	No data.					
	Boiling	Point:	No data.					
	Flash P	ash Pt: -10.00 C Method Used: Closed Cup						
	Evapora	ation Rate:	No data.					
	Explosi	ve Limits:	LEL: 3.1	% at 25.0 C U	EL: 16.0% at 25.0 C			
	Vapor Pressure (vs. Air or mm 173 MM_HG at 20.0 C Hg):							
		Density (vs. Air = 1):	No data.					
	-	c Gravity (Water = 1)						
	-	ty in Water:	No data.					
		nition Pt:	455.00 C					
<b>م</b> ا	-	formation	-00.00 0					
9.2	••		No data.					
		Volatile:		E 269 E				
	woiecu	lar Formula & Weig						
10.1	Reactiv	i+\/-	Section No data available.	10. Stability and F	Reactivity			
10.1	Stability			Stable [ X ]				
10.2	-				on listed on the product insert	_		
10.3	-	bility Note(s):       Stable if stored in accordance with information listed on the product insert.         ymerization:       Will occur []         Will not occur [X]						
10.4	-							
-	Conditions To Avoid: heat, flames and sparks Incompatibility - Materials acids							
10.5	-	-	acias alkalis					
	To Avoi		aikalis hitrates					
			strong oxidizing a	nents				
						Multi-region for		



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10.6 Hazardous			carbon dioxide carbon monoxide							
Decomposition Or										
Byproducts:										
			Sectio	n 11. Toxicologi	cal Informa	ation				
11.1	•									
Toxicological Effects:         Methyl Acetate - Toxicity Data: Oral LD50 (rat): >5,000 mg/kg; Oral LD50 (rabbility and the toxicological effects.							3 705 ma/ka			
	TOXICOlOgi		-	-				0,700 mg/ng,		
			Skin LD50 (rabbit): >5,000 mg/kg; Inhalation TCLO (human): 15,000 mg/m3; Methyl Acetate - Irritation Data: Skin (rabbit): 500 mg (24h) mild; Eyes (rabbit): 100 mg (24h) moderate; Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here							
	Chronic To	vicological								
Chronic Toxicological Effects:			Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information.							
	Encots.		Methyl Acetate RTECS Number: Al9100000							
Carcinogenicity:			NTP? No IARC Monographs? No OSHA Regulated? No							
CAS	# H	azardous Com	ponents (Ch	emical Name)	NTP	IARC	ACGIH	OSHA		
3570	00-23-3 15	5(S)-15-methyl I	Prostaglandin	F2.alpha.	n.a.	n.a.	n.a.	n.a.		
79	-20-9 M	ethyl acetate			n.a.	n.a.	n.a.	n.a.		
	•		Secti	on 12. Ecologica	al Informat	ion		•		
12.1	Toxicity:									
12.1	l'oxiony.		Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.							
12.2	Persistence	e and	No data ava	ilahla						
12.2	Degradabil		NU Uala ava							
40.0			No. Joto auto	1						
12.3	Bioaccumu	llative	No data ava	liadie.						
	Potential:									
12.4	Mobility in	Soil:	No data ava	ilable.						
12.5	Results of	PBT and vPvB	No data ava	ilable.						
	assessmen	it:								
12.6	Other adve	rse effects:	No data available.							
			Sectio	n 13. Disposal (	Considerat	ions				
13.1	Waste Disp	osal Method:	Dispose in a	ccordance with local, stat	te, and federal re	egulations.				
			Sect	tion 14. Transpo	rt Informat	ion				
14.1	LAND TRA	NSPORT (US I	DOT):							
D	OT Proper S	hipping Name:	: Methyl A	Acetate Solution						
D	DOT Hazard Class:		3	FLAMMABLE LI	QUID					
UN/NA Number:		1231		Packing Grou	p:	II				
					-					
			FLAMMABLE							
			3							
14.1	LAND TRA	NSPORT (Euro	opean ADR/R	RID):						
	DR/RID Ship	-	-	Acetate Solution						
	N Number:	רייש וימוויכ.	1231		Packing Grou	n.	П			
	azard Class:		3 - FLAMMABLE LIQUID							
	uzui u Via33.		J-TLAI							
							Γ	Aulti-region forma		
							-	5		



• Revision: 04/29/2015 Supersedes Revision: 09/12/2007

#### 14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Methyl Acetate Solution **UN Number:** Packing Group: Ш 1231 IATA Classification: Hazard Class: 3 - FLAMMABLE LIQUID 3 Transport in accordance with local, state, and federal regulations. Additional Transport 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 to be labeled as Dangerous Goods/Excepted Quantity. Section 15. Regulatory Information EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) 35700-23-3 15(S)-15-methyl Prostaglandin F2.alpha. No No No 79-20-9 Methyl acetate No No No CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists CAA HAP.ODC: No: CWA NPDES: No: TSCA: No: CA 35700-23-3 15(S)-15-methyl Prostaglandin F2.alpha. 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 This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) **Regulatory Information** No.1272/2008. Statement: Section 16. Other Information **Revision Date:** 04/29/2015 Additional Information About No data available. This Product:

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