

		19(R)-hydroxy Prostaglan	din A2 Revision: 04/01/2015					
Cay	man		Supersedes Revision: 09/06/2007					
	accord	ling to Regulation (EC) No. 1907/2006 as amended by	(EC) No. 1272/2008					
	Section 1. Ide	entification of the Substance/Mixture and of th	e Company/Undertaking					
1.1	Product Code:	10295						
	Product Name:	19(R)-hydroxy Prostaglandin A2						
	Synonyms: 9-oxo-15S,19R-dihydroxy-prosta-5Z,10,13E-trien-1-oic acid; 19(R)-hydroxy PGA2;							
1.2	Relevant identified uses of t	he substance or mixture and uses advised ag	ainst:					
	Relevant identified uses:	For research use only, not for human or veterin	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	er:						
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300					
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887					
		Section 2. Hazards Identification	ation					
2.1	Classification of the Substa	nce or Mixture:						
2.1.1	Classification according to	Regulation (EC) No 1272/2008 [CLP]:						
	Flammable Liquids, Categ	ory 2						
2.2	Label Elements:							
2.2.1	Labeling according to Regu	lation (EC) No 1272/2008 [CLP]:						
	$\mathbf{\wedge}$							
	she							
	<u>e</u> 3							
	GHS Signal Word: GHS Hazard Phrases:	Danger						
		id and vanar						
	H225: Highly flammable liqu							
	GHS Precaution Phrases:	t/anarka/anan flamaa/hat aurfaasa) . Na amaking						
	P210: Keep away from {heat/sparks/open flames/hot surfaces} No smoking. P280: Wear {protective gloves/protective clothing/eye protection/face protection}.							
		es/protective clothing/eye protection/race protecti	011}.					
	GHS Response Phrases:	l (or hair): Remove/take off immediately all conta	minated clothing. Pinco skin with					
	water/shower.		milated clothing. Kinse skin with					
	GHS Storage and Disposa	l Phrases:						
		Storage and Section 13 for Disposal information.						



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Material may be irritating to the mucous membranes and upper respiratory tract. Adverse Human Health 2.3 Effects and Symptoms:

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

May cause eye, skin, or respiratory system irritation.

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

Section 3. Composition/Information on Ingredients CAS #/ EC No./ **GHS Classification** Hazardous Components (Chemical Name)/ Concentration **RTECS #** EC Index No. **REACH Registration No.** 19(R)-hydroxy Prostaglandin A2 52087-58-8 0.05 % NA No data available. NA NA 64-17-5 Ethyl alcohol 99.95 % 200-578-6 Flam. Liq. 2: H225 KQ6300000 603-002-00-5 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 May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude Effects, Both Acute and (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. **Delayed:** Section 5. Fire Fighting Measures 5.1 Suitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Media: Use water spray to cool fire-exposed containers. Unsuitable Extinguishing A solid water stream may be inefficient. Media: 5.2 Flammable Properties and Can release vapors that form explosive mixtures at temperatures at or above the flashpoint. Container explosion may occur under fire conditions. Hazards: Emits toxic fumes under fire conditions. Sensitive to static discharge. Vapors can travel to a source of ignition and flash back. Flash Pt: 14.00 C Method Used: Closed Cup **Explosive Limits:** LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C 363.00 C **Autoignition Pt:** 5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes. Note: Flammable as diluted in ethanol.



Multi-region format

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Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves). 2 Environmental Take steps to avoid release into the environment, if safe to do so. Precautions: 3 Methods and Material For Contain spill and collect, as appropriate. Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations. Up: Section 7. Handling and Storage 1 Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray. in Handling: Avoid prolonged or repeated exposure. Keep away from sources of ignition. Take precautionary measures against static discharge. 2 Section 8. Exposure Controls/Personal Protection Conter receautions: Hygroscopic. Section 8. Exposure Controls/Personal Protection CAS # Partial Chemical Name Britain EH40 France VL Europe Source Controls/Personal Protection Section 8. Exposure Controls/Personal Protection CAS # Partial Chemical Name Britain EH40									
Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator Emergency Procedures: and appropriate personal protection (tubber boots, safety goggles, and heavy rubber gloves). 2 Environmental Take steps to avoid release into the environment, if safe to do so. Precautions: 3 Methods and Material For Contain spill and collect, as appropriate. Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations. Up: Section 7. Handling and Storage 1 Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray. In Handling: Avoid prolonged or repeated exposure. Keep away from sources of ignition. Take precautionary measures against static discharge. 2 Precautions To Be Taken Keep away from heat, sparks, and flame. In Storing: Keep container tightly closed. Store in accordance with information listed on the product insert. Other Precautions: Hygroscopic. 2 Section 8. Exposure Controls/Personal Protection 1 Exposure Parameters: 2AS # Partial Chemical Name Britain EH40 France VL Europe 52087-58-8 19(R)-hydroxy Prostaglandin A2 No data. No data. No data. 64-17-5 Ethyl alcohol PieL: 1000 ppm TW: 1000 mgm3 (1000 ppm) 57EL: 0 57EL: 0 57EL: 0 57EL: 0 57EL: 0 57EL: 0 57EL: 0 57EL: 0 57EL: 1000 ppm No data. No data. 57EL: 1000 ppm No data. 57E				Section 6. Ac	cidental Release Me	easures			
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52087-58-8 19(R)-hydroxy Prostaglandin A2 No data. No data. No data. 64-17-5 Ethyl alcohol PEL: 1000 ppm TLV: 1000 ppm No data. 62 Exposure Controls: Exposure Controls: No data. No data. 62.1 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airborr (Ventilation etc.): levels below recommended exposure limits. 62.2 Personal protection equipment: Eye Protection: Safety glasses Protective Gloves: Compatible chemical-resistant gloves Other Protective Clothing:Lab coat Respiratory Equipment NIOSH approved respirator, as conditions warrant. (Specify Type): Work/Hygienic/Maintenan Do not take internally. ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash and a safety show. Wash thoroughly after handling.	64-	-17-5	Ethyl alcohol			ppm) STEL: 9500 mg/m3 (5000	No data.		
64-17-5 Ethyl alcohol PEL: 1000 ppm TLV: 1000 ppm No data. 8.2 Exposure Controls:	CAS #	<i>‡</i>	Partial Chemical	Name	OSHA TWA	ACGIH TWA	Other Limits		
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Eye Protection:Safety glassesProtective Gloves:Compatible chemical-resistant glovesOther Protective Clothing: Lab coatRespiratory EquipmentNIOSH approved respirator, as conditions warrant.(Specify Type):Work/Hygienic/MaintenanDo not take internally.ce Practices:Facilities storing or utilizing this material should be equipped with an eyewash and a safety show Wash thoroughly after handling.	8.2.1	Enginee (Ventila	ering Controls tion etc.):	levels below recomm		or other engineering control	ls to control airborn		
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Work/Hygienic/MaintenanDo not take internally.ce Practices:Facilities storing or utilizing this material should be equipped with an eyewash and a safety show Wash thoroughly after handling.		Respiratory Equipment NIOSH approved res		pirator, as conditions warrant.					
ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash and a safety show Wash thoroughly after handling.		(Specify Type):							
No data available.		ce Practices: Facilities storing or			ilizing this material should be e	equipped with an eyewash	and a safety showe		
				no uala availadie.			Multi-rogion form		



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	S	Section 9. Physical and Chemical Properties		
9.1	Information on Basic Phy	vsical and Chemical Properties		
	Physical States:	[] Gas [X] Liquid [] Solid		
	Appearance and Odor:	A solution in ethanol		
	Melting Point:	No data.		
	Boiling Point:	No data.		
	Flash Pt:	14.00 C Method Used: Closed Cup		
	Evaporation Rate:	No data.		
	Explosive Limits:	LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C		
	Vapor Pressure (vs. Air o	or mm 43 MM_HG at 20.0 C		
	Hg):			
	Vapor Density (vs. Air =	1): No data.		
	Specific Gravity (Water =	= 1): No data.		
	Solubility in Water:	No data.		
	Autoignition Pt:	363.00 C		
9.2	Other Information			
•	Percent Volatile:	No data.		
	Molecular Formula & We			
		Section 10. Stability and Reactivity		
10.1	Reactivity:	No data available.		
10.2	Stability:	Unstable [] Stable [X]		
10.3	Stability Note(s):	Stable if stored in accordance with information listed on the product insert.		
	Polymerization:	Will occur [] Will not occur [X]		
10.4	Conditions To Avoid:	heat, flames and sparks		
10.5	Incompatibility - Material	Is alkali metals		
	To Avoid:	ammonia		
		peroxides		
		strong oxidizing agents		
10.6	Hazardous	carbon dioxide		
	Decomposition Or	carbon monoxide		
	Byproducts:			



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_			Sectio	n 11. Toxicolog	gical Infor	matio	on		
Carcir	1 Information on Toxicological Effects: Chronic Toxicological Effects:		Ethanol - To (rat): 7,060 ((rabbit): 6,30 ppm (30m); (6h); Inhalat Ethanol - Irr Ethanol - Irr Only select See actual e	gical effects of this prod pxicity Data: Oral TDLO mg/kg; Oral LD50 (mou 00 mg/kg; Inhalation LC Inhalation TCLO (huma ion LCLO (mouse): 29,3 itation Data: Eyes (rabb vestigated as a mutagel Registry of Toxic Effects entry in RTECS for com ECS Number: KQ63000 IARC Monographs?	(man): 1.14 m se): 3,450 mg/ 50 (rat): 20,00 an): 2,500 mg/r 300 ppm (7h); it): 500 mg (24 n, reproductive s of Chemical 3 plete information	l/kg; Or kg; Ora 0 ppm (m3 (20n lh) mild e effecto Substar on.	al TDLO (r I LD50 (mo (10h); Inha n); Inhalati ; Skin (rab	man): 650 mg/l ouse): 10.5 ml/ Ilation TCLO (h on LC50 (rat): bit): 20 mg (24 Iorigen.	/kg; Oral LD50 human): 1,800 5,900 mg/m3 h) moderate;
CAS	#	Hazardous Com	ponents (Ch	emical Name)	NTP		IARC	ACGIH	OSHA
5208	87-58-8	19(R)-hydroxy Pr	ostaglandin A	12	n.a.		n.a.	n.a.	n.a.
64	-17-5	Ethyl alcohol			n.a.		1	A4	n.a.
		ł	Sect	ion 12. Ecologi	cal Inform	atior	<u>ו</u>		
2.1	Toxicity	:	Avoid releas	se into the environment.					
		_		fire control or dilution w	ater may caus	e pollut	tion.		
12.2	Persiste		No data ava	ilable.					
2.3	Degrada	mulative	No data available.						
12.3	Potentia		NU Uala ava						
1			No data available.						
∠.4	Mobility	in Soil:	No data ava	ilable.					
	Results	of PBT and vPvB							
12.5	Results assessm	of PBT and vPvB		ilable.					
12.5	Results assessm	of PBT and vPvB nent:	No data ava No data ava	ilable.	Consider	ratior	າຣ		
12.5	Results assessm Other ad	of PBT and vPvB nent: Iverse effects:	No data ava No data ava Sectio	ilable. ilable.					
12.5	Results assessm Other ad	of PBT and vPvB nent: Iverse effects:	No data ava No data ava Sectio Dispose in a	^{iilable.} ^{iilable.} on 13. Disposal	tate, and feder	al regu	lations.		
12.5 12.6 13.1	Results assessm Other ad Waste D	of PBT and vPvB nent: Iverse effects:	No data ava No data ava Sectio Dispose in a Sec	illable. illable. on 13. Disposal accordance with local, s	tate, and feder	al regu	lations.		
12.5 12.6 13.1 14.1	Results assessm Other ad Waste D	of PBT and vPvB nent: Iverse effects: isposal Method:	No data ava No data ava Sectio Dispose in a Sec DOT):	illable. illable. on 13. Disposal accordance with local, s	tate, and feder	al regu	lations.		
12.5 12.6 13.1 14.1 D	Results assessm Other ad Waste D	of PBT and vPvB nent: Iverse effects: isposal Method: RANSPORT (US I r Shipping Name:	No data ava No data ava Sectio Dispose in a Sec DOT):	illable. on 13. Disposal accordance with local, s tion 14. Transp	tate, and feder ort Inform	al regu	lations.		
12.5 12.6 13.1 14.1 D	Results assessm Other ad Waste D LAND T OT Prope	of PBT and vPvB hent: lverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class:	No data ava No data ava Sectio Dispose in a Sec DOT): Ethyl Al	illable. on 13. Disposal accordance with local, s tion 14. Transp	tate, and feder ort Inform	al regul	lations.		
12.5 12.6 13.1 14.1 D	Results assessm Other ad Waste D LAND T OT Prope OT Hazard	of PBT and vPvB hent: lverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class:	No data ava No data ava Sectio Dispose in a Sec DOT): Ethyl Al 3	illable. on 13. Disposal accordance with local, s tion 14. Transp	tate, and feder ort Inform	al regul	lations.	II	
12.5 12.6 13.1 14.1 D U	Results assessm Other ad Waste D LAND T OT Prope OT Hazard N/NA Num	of PBT and vPvB hent: Iverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: hber:	No data ava No data ava Sectio Dispose in a Sec DOT): Ethyl Al 3 1170	illable. Dn 13. Disposal accordance with local, s tion 14. Transp cohol Solution FLAMMABLE I RID):	tate, and feder ort Inform	al regul	lations.	11	
12.5 12.6 13.1 14.1 D U U	Results assessm Other ad Waste D LAND T OT Prope OT Hazard N/NA Nun	of PBT and vPvB nent: Iverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: nber: RANSPORT (Euro hipping Name:	No data ava No data ava Sectio Dispose in a Sec DOT): Ethyl Al 3 1170	iilable. on 13. Disposal accordance with local, s tion 14. Transp cohol Solution FLAMMABLE	tate, and feder Ort Inform LIQUID Packing G	ral regul natior	lations.		
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Revision: 04/01/2015 Supersedes Revision: 09/06/2007

14.3	AIR TRANSPORT (ICAO/IATA):
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ICAO/IATA Shipping Name:	Ethyl Alcohol Solution		
UN Number:	1170	Packing Group:	II
Hazard Class:	3 - FLAMMABLE LIQUID	IATA Classification:	3
Additional Transport	Transport in accordance with loca	l, state, and federal regulations.	
Information:	When sold in quantities of less that	an or equal to 1 mL, or 1 g, with ar	Excepted Quantity Code of
	E1, E2, E4, or E5, this item meets	the De Minimis Quantities exemp	tion, 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)		
52087-58-8	19(R)-hydroxy P	rostaglandin A2	No	No	No		
64-17-5	Ethyl alcohol		No	No	No		
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or State Lists				
52087-58-8				CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
64-17-5	64-17-5 Ethyl alcohol			CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No			
Regulatory Inf Statement:	ormation	This SDS was prepared in acc No.1272/2008.	ordance with 29 CFF	R 1910.1200 and R	egulation (EC)		
		Section 16. Ot	her Informatio	on			
Revision Date	:	04/01/2015					
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	ever, we make no wa	rranty of merchanta			