

Revision: 06/09/2019

		ng to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830						
	Section 1.	Identification of the Substance/Mixture and of the	ne Company/Undertaking					
.1	Product Code: Product Name: Synonyms:	28195 15(S)-acetate Prostaglandin A2 methyl ester (5Z,13E,15S)-15-(acetyloxy)-9-oxo-prosta-5,10 methyl ester; 15S-O-acetyl-PGA2 methyl ester),13-trien-1-oic acid, methyl ester; 15-acetyl PGA ; 15S-PGA2 methyl ester, 15-acetate;					
1.2	Relevant identified uses of	of the substance or mixture and uses advised aga	ainst:					
	Relevant identified uses	For research use only, not for human or vetering	hary use.					
1.3	Details of the Supplier of the Safety Data Sheet:							
	Company Name:							
	Web site address:	www.caymanchem.com						
	Information:	Cayman Chemical Company	+1 (734)971-3335					
1.4	Emergency telephone nu	mber:						
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887					
		Section 2. Hazards Identification	ation					
2.1	Classification of the Subs	stance or Mixture:						
	Flammable Liquids, Cat	tegory 2						
2.2	Label Elements:							
	GHS Signal Word:	Danger						
	GHS Hazard Phrases: H225: Highly flammable I	iquid and vapor.						
	GHS Precaution Phrase	25:						
	P210: Keep away from {heat/sparks/open flames/hot surfaces} No smoking. 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 water/shower.							
	GHS Storage and Disposal Phrases:							
	Please refer to Section 7	for Storage and Section 13 for Disposal information.						
2.3	Adverse Human Health	Material may be irritating to the mucous membrane	es and upper respiratory tract.					
	Effects and Symptoms:	May be harmful by inhalation, ingestion, or skin absorption.						
		May cause eye, skin, or respiratory system irritation	n.					
		To the best of our knowledge, the toxicological pro	perties have not been thoroughly investigated.					

Multi-region format



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NA		Hazardous Components (Chemical Name)/ REACH Registration No.		EC No./ EC Index No.	GHS Classification	
	3-03-2 15(S)-acetate Prost	aglandin A2 methyl ester	1.0 %	NA NA	No data available.	
64-17-5 Ethyl alcohol KQ6300000 01-2119457610-43			99.0 %	200-578-6 603-002-00-5	Flam. Liq. 2: H225	
		Section 4. Fi	rst Aid Meas	ures	•	
l.1	Description of First Aid					
	Measures:					
	In Case of Inhalation:	Remove to fresh air. If not bre Get immediate medical attent		I respiration or giv	e oxygen by trained personnel	
	In Case of Skin Contact:	Immediately wash skin with s	oap and plenty of w	ater for at least 15	minutes. Remove contaminate	
		clothing. Get medical attentio	n if symptoms occu	r. Wash clothing b	efore reuse.	
	In Case of Eye Contact:	Hold eyelids apart and flush e and tested by medical person		ater for at least 1	5 minutes. Have eyes examined	
	In Case of Ingestion:	Wash out mouth with water p unconscious person. Get med medical personnel.	•	•	ve anything by mouth to an ng unless directed to do so by	
4.2	Important Symptoms and	d May cause anemia, cough, C	NS depression, dro	wsiness, headach	e, heart damage, lassitude	
	Effects, Both Acute and Delayed:	(weakness, exhaustion), liver	damage, narcosis,	reproductive effec	ts, teratogenic effects.	
		Section 5. Fire	Fighting Me	asures		
5.1	Suitable Extinguishing	Use alcohol-resistant foam, c	carbon dioxide, wate	r, or dry chemical	spray.	
	Media:	Use water spray to cool fire-e	exposed containers.			
	Unsuitable Extinguishing	g A solid water stream may be	inefficient.			
	Media:					
5.2	-	dCan release vapors that form	-	-	at or above the flashpoint.	
	Hazards:	Container explosion may occ		ons.		
		Emits toxic fumes under fire of Sensitive to static discharge.				
		Vapors can travel to a source		h back		
		No data available.				
	Flash Pt:	14.00 C Method Used: Clo	osed Cup			
	Explosive Limits:	LEL: 3.3% at 25.0 C	•	at 25.0 C		
	Autoignition Pt:	363.00 C				
5.3	-		-	emand (NIOSH approved or		
		equivalent), and full protectiv Note: Flammable as diluted in		madi with SKIN an	u cycs .	



Revision: 06/09/2019

Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, Emergency Procedures: and appropriate personal protection (rubber bots, safety goggles, and heavy rubber gloves). 6.2 Environmental Take steps to avoid release into the environment, if safe to do so. Precautions: 6.3 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 7.1 Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray. in Handling: Avoid preathing 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. 7.2 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 Section 8. Exposure Controls/Personal Protection 8.1 Exposure Parameters: CAS # Chemical Name Jurisdiction Recommended Exposure Limits Notations 64-17-5 Ethyl alcohol ACGIH TLV TV: 1000 ppm France VL TV: 1000 ppm STEL : 900 ppm3 (5000 ppm) STEL : 900 ppm3 (5000 ppm) STEL : 920 ppm3 (5000 ppm) STEL : 920 ppm3 (5000 ppm) STEL : 92 Protection exits to control airborne (Ventilation etc.): levels below recommended exposure limits. 8.2.2 Presonal protection europeut: 8.2.4 Exposure Controls: 8.2.5 Personal protection europeut: 8.2.6 Personal protection europeut: 8.2.7 Personal protection europeut: 8.2.9 Personal protection equipment: 8.2.9 Personal protection equipment: 8.3 Stepreventine: NIO									
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STEL: () 8.2 Exposure Controls: 8.2.1 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne (Ventilation etc.): 8.2.2 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 Work/Hygienic/Maintenan Do not take internally. ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower Wash thoroughly after handling.			OSHA PELs	;	PEL: 1000 ppm				
8.2.1 Engineering Controls (Ventilation etc.): Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. 8.2.2 Personal protection equipment: Eye Protection: Safety glasses Protective Gloves: Compatible chemical-resistant gloves Other Protective Clothing: Lab coat Respiratory Equipment (Specify Type): NIOSH approved respirator, as conditions warrant. Work/Hygienic/Maintenan Ce Practices: Do not take internally. Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower Wash thoroughly after handling.			Britain EH40)					
(Ventilation etc.): levels below recommended exposure limits. 8.2.2 Personal protection equipment: Eye Protection: Safety glasses Protective Gloves: Compatible chemical-resistant gloves Other Protective Clothing:Lab coat Respiratory Equipment Respiratory Equipment NIOSH approved respirator, as conditions warrant. (Specify Type): Vork/Hygienic/Maintenan Vork/Hygienic/Maintenan Do not take internally. ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower Wash thoroughly after handling.	8.2	Exposure Controls:							
 8.2.2 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 shower Wash thoroughly after handling. 	8.2.1	Engineering Controls	Use process enclos	ures, local ex	haust ventilation, or other engineering co	ontrols to control airborne			
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 shower Wash thoroughly after handling.		(Ventilation etc.):	levels below recom	mended expc	sure limits.				
Protective Gloves: Compatible chemical-resistant gloves Other Protective Clothing:Lab coat Respiratory Equipment NIOSH approved respirator, as conditions warrant. (Specify Type): Nork/Hygienic/Maintenan Work/Hygienic/Maintenan Do not take internally. ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower Wash thoroughly after handling.	8.2.2	Personal protection equi	oment:						
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 shower Wash thoroughly after handling.		Eye Protection:							
Respiratory EquipmentNIOSH approved respirator, as conditions warrant.(Specify Type):Do not take internally.Work/Hygienic/MaintenanDo not take internally.ce Practices:Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower Wash thoroughly after handling.		Protective Gloves:	Compatible chemical-resistant gloves						
Respiratory EquipmentNIOSH approved respirator, as conditions warrant.(Specify Type):Do not take internally.Work/Hygienic/MaintenanDo not take internally.ce Practices:Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower Wash thoroughly after handling.		Other Protective Clothing							
(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 shower Wash thoroughly after handling.		-		espirator, as c	onditions warrant.				
Work/Hygienic/MaintenanDo not take internally.ce Practices:Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower Wash thoroughly after handling.									
Wash thoroughly after handling.									
		ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.						

Multi-region format



Revision: 06/09/2019

9.1		ection 9. Physical and Chemical Properties sical and Chemical Properties				
7. 1	Physical States:	[]Gas [X]Liquid []Solid				
	Appearance and Odor:	A solution in ethanol				
	pH:	No data.				
	Melting Point:	No data.				
	Boiling Point:	No data.				
	Flash Pt:	14.00 C Method Used: Closed Cup				
	Evaporation Rate:	No data.				
	Flammability (solid, gas):					
	Explosive Limits:	LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C				
	Vapor Pressure (vs. Air o					
	Hg):					
	Vapor Density (vs. Air = 1	I): No data.				
	Specific Gravity (Water =					
	Solubility in Water:	No data.				
	Octanol/Water Partition	No data.				
	Coefficient:					
	Autoignition Pt:	363.00 C				
	Decomposition Temperat					
	Viscosity:	No data.				
9.2	Other Information					
J.Z	Percent Volatile:	No data.				
	Molecular Formula & Wei					
		5				
		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				
	Incompatibility - Materials alkali metals					
	Incompatibility - Materials					
	Incompatibility - Materials	ammonia				
		ammonia peroxides				
10.5	To Avoid:	ammonia peroxides strong oxidizing agents				
10.5	To Avoid: Hazardous	ammonia peroxides strong oxidizing agents carbon dioxide				
10.5	To Avoid:	ammonia peroxides strong oxidizing agents				



Revision: 06/09/2019

Multi-region format

11.1	Toxicological Effects:Ethanol - Toxicity Data: Oral TDLO (mail (rat): 7,060 mg/kg; Oral LD50 (mouse): 1 (rabbit): 6,300 mg/kg; Inhalation LC50 (r ppm (30m); Inhalation TCLO (human): 2 (6h); Inhalation LCLO (mouse): 29,300 p Ethanol - Irritation Data: Eyes (rabbit): 5Chronic Toxicological Effects:Ethanol - Investigated as a drug, mutage and tumorigen.				O (man): 1.14 n puse): 3,450 mg C50 (rat): 20,00 nan): 2,500 mg/ 9,300 ppm (7h); obit): 500 mg (2 mutagen, natura cts of Chemical mplete informat	an): 1.14 ml/kg; Oral TDLO (man): 650 mg/kg; Oral LD56 3,450 mg/kg; Oral LD50 (mouse): 10.5 ml/kg; Oral LD56 (rat): 20,000 ppm (10h); Inhalation TCLO (human): 1,80 2,500 mg/m3 (20m); Inhalation LC50 (rat): 5,900 mg/m3 ppm (7h); 500 mg (24h) mild; Skin (rabbit): 20 mg (24h) moderate; gen, natural product, primary irritant, reproductive effector Chemical Substances (RTECS) data is presented here			
	nogenicity			RC Monographs		A Regul	ated? No		
CAS			ponents (Chemic		NTP		IARC	ACGIH	OSHA
	23-03-2		staglandin A2 me	inyi ester	n.a.		n.a.	n.a.	n.a.
64	-17-5	Ethyl alcohol			n.a.		1	A4	n.a.
			Section	12. Ecolog	jical Inforn	natior	1		
Degradability: 2.3 Bioaccumulative Potential: 2.4 Mobility in Soil: 2.5 Results of PBT and vPvE assessment:				control or dilution	water may bud	se poliul			
12.2 12.3 12.4 12.5 12.6	Degradal Bioaccur Potential Mobility Results o assessm	bility: mulative I: in Soil: of PBT and vPvB tent:	No data available No data available No data available No data available No data available).).).					
12.3 12.4 12.5	Degradal Bioaccur Potential Mobility Results o assessm Other ad	bility: mulative I: in Soil: of PBT and vPvB tent:	No data available No data available No data available No data available No data available	». ». ». 3. Disposa	al Conside	ratior	IS		
12.3 12.4 12.5 12.6	Degradal Bioaccur Potential Mobility Results o assessm Other ad	bility: mulative I: in Soil: of PBT and vPvB ent: verse effects:	No data available No data available No data available No data available No data available Section 1 Dispose in accord	». ». ». 3. Disposa	al Conside state, and fede	ratior ral regul	1S lations.		
12.3 12.4 12.5 12.6	Degradal Bioaccur Potential Mobility Results o assessm Other ad	bility: mulative I: in Soil: of PBT and vPvB ent: verse effects:	No data available No data available No data available No data available No data available Dispose in accord Section	e. e. e. 3. Disposa dance with local,	al Conside state, and fede	ratior ral regul	1S lations.		
12.3 12.4 12.5 12.6 13.1 14.1	Degradal Bioaccur Potential Mobility Results of assessm Other ad Waste Di	bility: mulative l: in Soil: of PBT and vPvB eent: verse effects: isposal Method:	No data available No data available No data available No data available No data available Section 1 Dispose in accord Section	a. a. 3. Disposa dance with local, 14. Trans	al Conside state, and fede	ratior ral regul	1S lations.		
12.3 12.4 12.5 12.6 13.1 14.1 D	Degradal Bioaccur Potential Mobility Results of assessm Other ad Waste Di	bility: mulative l: in Soil: of PBT and vPvB eent: verse effects: isposal Method: RANSPORT (US I	No data available No data available No data available No data available No data available Section 1 Dispose in accord Section	a. a. 3. Disposa dance with local, 14. Trans	al Conside state, and fede port Inforn	ratior ral regul	1S lations.		
12.3 12.4 12.5 12.6 13.1 14.1 D	Degradal Bioaccur Potential Mobility i Results o assessm Other ad Waste Di LAND TR	bility: mulative l: in Soil: of PBT and vPvB eent: verse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class:	No data available No data available No data available No data available No data available Section 1 Dispose in accord Section Dispose in accord Section	e. a. 3. Disposa dance with local, 14. Trans I Solution	al Conside state, and fede port Inforn	ration ral regul	1S lations.		
12.3 12.4 12.5 12.6 13.1 14.1 D U	Degradal Bioaccur Potential Mobility i Results o assessm Other ad Waste Di LAND TF OT Proper OT Hazaro N/NA Num	bility: mulative l: in Soil: of PBT and vPvB eent: verse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class:	No data available No data available No data available No data available No data available Section 1 Dispose in accord Section Dispose in accord Section Dispose in accord Section	a. a. 3. Disposa 3. Disposa 3. Disposa 3. Disposa 1. Solution FLAMMABLE	al Conside state, and fede port Inforn	ration ral regul	1S lations.		
12.3 12.4 12.5 12.6 13.1 14.1 D U 14.1 A	Degradal Bioaccur Potential Mobility i Results o assessm Other ad Waste Di LAND TF OT Proper OT Hazaro N/NA Num	bility: mulative l: in Soil: of PBT and vPvB eent: verse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: nber:	No data available No data available No data available No data available No data available Section 1 Dispose in accord Section Dispose in accord Section Dispose in accord Section Dispose in accord Section COT): Ethyl Alcohol 3 UN1170	a. a. 3. Disposa 3. Disposa 3. Disposa 3. Disposa 1. Solution FLAMMABLE	al Conside state, and fede port Inforn	ratior ral regul natior	1S lations.		



14.3 AIR TRA	ANSPORT (ICAO/I	ATA):						
ICAO/IATA Shipping Name:		Ethyl Alcohol Solution						
UN Number:		1170	Packing Group:		II			
Hazard Class:		3 - FLAMMABLE LIQUID	3 - FLAMMABLE LIQUID IATA Classification:		3			
Additional Transport		Transport in accordance with local, 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 ha	ave to be labeled as	Dangerous Goods/Ex	xcepted Quantity.			
		Section 15. Regula	atory Informat	ion				
EPA SARA (Su	perfund Amendm	ents and Reauthorization Act o	f 1986) Lists					
CAS # Hazardous Com		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)			
36323-03-2	15(S)-acetate Pro	ostaglandin A2 methyl ester	No	No	No			
64-17-5	Ethyl alcohol		No	No	No			
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or S	State Lists				
36323-03-2	15(S)-acetate Pro	ostaglandin A2 methyl ester	CAA HAP,ODC: No PROP.65: No	; CWA NPDES: No	; TSCA: No; CA			
64-17-5	Ethyl alcohol		CAA HAP,ODC: No Inventory; CA PRO	o; CWA NPDES: No DP.65: No	; TSCA: Yes -			
Regulatory Info	rmation	This SDS was prepared in accor	dance with 29 CFR 1	910.1200 and Regul	ation (EC)			
Statement:		This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.						
		Section 16. Oth	er Informatior	ו				
Revision Date:		06/09/2019						
Additional Infor	mation About	No data available.						
This Product:								
Company Policy or Disclaimer:		DISCLAIMER: This information is currently available to us. However express or implied, with respect to use. Users should make their ow their particular purposes.	er, we make no warra to such information, a	nty of merchantabilit and we assume no lia	y or any other warranty, ability resulting from its			