

Revision: 06/06/2017 Supersedes Revision: 04/12/2015 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:** 14950 **Product Name:** 20-hydroxy Prostaglandin E2 Synonyms: 9-oxo-11.alpha.,15S,20-trihydroxy-prosta-5Z,13E-dien-1-oic acid; 20-hydroxy PGE2; 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: Cayman Chemical Company Company Name: 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 **Classification of the Substance or Mixture:** 2.1 Flammable Liquids, Category 2 2.2 Label Elements: **GHS Signal Word:** Danger **GHS Hazard Phrases:** H225: Highly flammable liquid and vapor. **GHS Precaution Phrases:** 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. Material may be irritating to the mucous membranes and upper respiratory tract. 2.3 Adverse Human Health May be harmful by inhalation, ingestion, or skin absorption. Effects and Symptoms: May cause adverse reproductive effects in males and/or females. May cause eye, skin, or respiratory system irritation. May cause gastrointestinal disturbances. May damage fertility or the unborn child. May stimulate contraction of intestinal and reproductive smooth muscle. 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.

Multi-region format



64-17-5 (CG3300000 Ethyl alcohol 99.95 % 200-578-6 603-002-00-5 Filam. Liq. 2: H225 Section 4. First Aid Measures In Description of First Aid Measures: In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personn Get immediate medical attention. In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contamina 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 examin 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. 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. 2 Exposure can cause: clarrhea, dizziness, fever, flushing, headache, hypotension, nausea, shivering, vomiting. Section 5. Fire Fighting Measures 1. Suitable Extinguishing Media: Use alcohol-resistant form explosive mixtures at temperatures at or above the flash point. Hazards: Contanine replosion may occuru der fire conditions. Sensitive to static			Sect	tion 3. Composition	/Information	on Ingredie	nts		
AA NA Toxic Repro. 1B: H360 64-17-5 Ethyl alcohol 99.95 % 200-578-6 Flam. Liq. 2: H225 Section 4. First Aid Measures In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personn Get immediate medical attention. In Case of Skin Contact: Immediate medical attention if symptoms occur. Wash clothing before reuse. In Case of Skin Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Remove contamina clothing. Get medical attention if symptoms occur. Wash clothing before reuse. 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. 12 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. 21 Suitable Extinguishing Use alcohol-resistant form, carbon dioxide, water, or dry chemical spray. 22 Important Symptoms and Can release vapors that form explosive mixtures at temperatures at or above the flash point. 21 Suitable Extinguishing A solid water stream may be inefficient. Media: Use water spray to cool fire-exposed containers. Unsuitable Ext					Concentration		GHS Classification		
Coesanoon End of the construction of the const	5793 NA	0-95-7	20-hydroxy Prostagl	andin E2	0.05 %				
1. Description of First Aid Measures: In Case of Inhalation: Get immediate medical attention. In Case of Skin Contact: In Case of Skin Contact: In Case of Skin Contact: Immediately wash skin with scap and plenty of water for at least 15 minutes. Remove contamina clothing. Get medical attention if symptoms occur. Wash clothing before reuse. In Case of Skin Contact: Im Case of Lye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examinant clothing. Get 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. 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: Exposure can cause: diarrhea, dizzlness, fever, flushing, headache, hypotension, nausea, shivering, vomiting. 2. Suitable Extinguishing Media: Use alcohol-resistant form, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers. Unsuitable Extinguishing A solid water stream may be inefficient. Media: 2. 2. Flammable Properties andCan release vapors that form explosive mixtures at temperatures at or above the flash point. Hazards: Container explosion may occur under fire conditions. Emits toxic furmes under fire conditions. Sensitive to static discharge. Vapors can travel to a source of ignition			Ethyl alcohol		99.95 %		Flam. Liq. 2: H225		
Measures: In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personn Get immediate medical attention. In Case of Skin Contact: Immediate medical attention. In Case of Skin Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Remove contamina 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 examine 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. 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. Exposure can cause: diarrhea, dizziness, fever, flushing, headache, hypotension, nausea, shivering, vomiting. Section 5. Fire Fighting Measures Media: Use alcohol-resistant form, carbon dioxide, water, or dry chemical spray. Unsuitable Extinguishing Media: Use alcohol-resistant form carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers. Emits toxic furmes under fire conditions. Emits toxic furmes under fire conditions. <td></td> <td></td> <td></td> <td>Section 4. Fi</td> <td>rst Aid Measu</td> <td>ures</td> <td></td>				Section 4. Fi	rst Aid Measu	ures			
Get immediate medical attention. In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove containing 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 examine 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. 2.1 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: Exposure can cause: diarrhea, dizziness, fever, flushing, headache, hypotension, nausea, shivering, vomiting. 2.1 Suitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Unsuitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Unsuitable Extinguishing A solid water stream may be inefficient. Media: 2.2 Flammable Properties andCan release vapors that form explosive mixtures at temperatures at or above the flash point. Hazards: Container explosion may occur under fire conditions. Sensitive to static discharge. Vapors can travel to a sourc	4.1	-							
 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 examinand 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. 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: Exposure can cause: diarrhea, dizziness, fever, flushing, headache, hypotension, nausea, shivering, vomiting. Section 5. Fire Fighting Measures 1 Suitable Extinguishing Media: Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers. Unsuitable Extinguishing A solid water stream may be inefficient. Media: Container explosion may occur under fire conditions. Emits toxic furmes under fire conditions. Emits toxic furmes under fire conditions. Sensitive to static discharge. Vapors can travel to a source of ignition and flash back. No data available. Flash Pt: H200 C Method Used: Closed Cup Explosive Limits: LEL: 3.3% at 25.0 C UEI: 19.0% at 25.0 C Autoignition Pt: 363.00 C 		In Case	e of Inhalation:			I respiration or giv	ve oxygen by trained personnel		
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. 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: Exposure can cause: diarrhea, dizziness, fever, flushing, headache, hypotension, nausea, shivering, vomiting. Section 5. Fire Fighting Measures Use water spray to cool fire-exposed containers. Unsuitable Extinguishing A solid water stream may be inefficient. Media: Container explosion may occur under fire conditions. Emits toxic fumes under fire conditions. 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 Autoignition Pt: 363.00 C 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.		In Case	e of Skin Contact:	-					
 unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel. 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: Exposure can cause: diarrhea, dizziness, fever, flushing, headache, hypotension, nausea, shivering, vomiting. Suitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers. Unsuitable Extinguishing A solid water stream may be inefficient. Media: Flammable Properties andCan release vapors that form explosive mixtures at temperatures at or above the flash point. Hazards: Container explosion may occur under fire conditions. Sensitive to static discharge. Vapors can travel to a source of ignition and flash back. No data available. 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 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. 		In Case	of Eye Contact:	•		ater for at least 1	5 minutes. Have eyes examine		
Effects, Both Acute and Delayed: (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. Exposure can cause: diarrhea, dizziness, fever, flushing, headache, hypotension, nausea, shivering, vomiting. 1 Suitable Extinguishing Media: Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers. Unsuitable Extinguishing A solid water stream may be inefficient. Media: 2 Flammable Properties andCan release vapors that form explosive mixtures at temperatures at or above the flash point. Hazards: 2 Flammable Properties andCan release vapors that form explosive mixtures at temperatures at or above the flash point. Hazards: 2 Flammable Properties andCan release vapors that form explosive mixtures at temperatures at or above the flash point. Hazards: 2 Flammable Properties andCan release vapors that form explosive mixtures at temperatures at or above the flash point. Hazards: 2 Flammable Properties andCan release vapors that form explosive mixtures at temperatures at or above the flash point. Hazards: 3 Container explosion may occur under fire conditions. Sensitive to static discharge. Vapors can travel to a source of ignition and flash back. No data available. 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 Autoignition Pt: 363.00 C 363.00 C 3		unconscious person. Get medical attention. Do NOT induce vomiting unless directed to							
 Suitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers. Unsuitable Extinguishing A solid water stream may be inefficient. Media: Flammable Properties andCan release vapors that form explosive mixtures at temperatures at or above the 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. No data available. 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 Gato C 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. 	4.2	Effects	, Both Acute and	(weakness, exhaustion), liver Exposure can cause: diarrhea	damage, narcosis,	reproductive effect	ts, teratogenic effects.		
Media: Use water spray to cool fire-exposed containers. Unsuitable Extinguishing A solid water stream may be inefficient. Media:				Section 5. Fire	Fighting Mea	asures			
Unsuitable Extinguishing A solid water stream may be inefficient. Media:	5.1		e Extinguishing			r, or dry chemical	spray.		
 Flammable Properties and Can release vapors that form explosive mixtures at temperatures at or above the 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. No data available. 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 Autoignition Pt: 363.00 C 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. 		Unsuita	able Extinguishing		-				
 Emits toxic fumes under fire conditions. Sensitive to static discharge. Vapors can travel to a source of ignition and flash back. No data available. 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 Autoignition Pt: 363.00 C 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. 	5.2		able Properties an	dCan release vapors that form	explosive mixtures	at temperatures a	at or above the flash point.		
 Sensitive to static discharge. Vapors can travel to a source of ignition and flash back. No data available. 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 Autoignition Pt: 363.00 C 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. 		Hazard	s:			ons.			
 Vapors can travel to a source of ignition and flash back. No data available. 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 Autoignition Pt: 363.00 C 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. 									
No data available. 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 Autoignition Pt: 363.00 C .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.						h hack			
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 Autoignition Pt: 363.00 C 363.00 C Sin any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.				•	e or ignition and has	T Dack.			
Explosive Limits: LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C Autoignition Pt: 363.00 C .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.		Flash F	0 +-		osed Cup				
Autoignition Pt: 363.00 C .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.						at 25.0 C			
 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. 		-							
equivalent), and full protective gear to prevent contact with skin and eyes.	5.3	5							
				equivalent), and full protective gear to prevent contact with skin and eyes.					



Multi-region format

	ATM/CAT			Caperoo			
		Sectior	n 6. Accidenta	al Release Measures			
6.1	Protective Precautions,	Avoid bre	eathing vapors and pro	ovide adequate ventilation.			
	Protective Equipment and	1 As condit	tions warrant, wear a N	NIOSH approved self-contained breathing	apparatus, or respirato		
	Emergency Procedures:	and appro	opriate personal prote	ction (rubber boots, safety goggles, and he	eavy rubber gloves).		
5.2	Environmental	Take ster	os to avoid release inte	o the environment, if safe to do so.			
	Precautions:						
5.3	Methods and Material For	· Contain s	spill and collect, as app	propriate.			
	Containment and Cleanin	gTransfer	to a chemical waste c	ontainer for disposal in accordance with lo	cal regulations.		
	Up:						
		Se	ection 7. Hand	ling and Storage			
7.1	Precautions To Be Taken						
	in Handling:	Avoid exp	oosure.				
		Keep awa	ay from sources of igni	tion.			
		Take prec	cautionary measures a	gainst static discharge.			
7.2	Precautions To Be Taken	Keep awa	ay from heat, sparks, a	ind flame.			
	in Storing:	Keep container tightly closed.					
				ation listed on the product insert.			
	Other Precautions:	Hygrosco	pic				
	Sect	ion 8.	Exposure Con	trols/Personal Protection			
3.1	Exposure Parameters:		·				
CAS #	Chemical Name	Ju	risdiction	Recommended Exposure Limits	Notations		
64-17-	-5 Ethyl alcohol	AC	CGIH TLV	TLV: 1000 ppm STEL: 1000 ppm			
		Fra	ance VL	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm)			
		05	SHA PELs	PEL: 1000 ppm			
		Bri	itain EH40	TWA: 1920 mg/m3 (1000 ppm)			
				STEL: ()			
	Exposure Controls:						
8.2.1	Engineering Controls			exhaust ventilation, or other engineering co	introls to control airborn		
	(Ventilation etc.):		ow recommended exp	osure limits.			
8.2.2	Personal protection equip						
	Eye Protection:	Safety gla					
	Protective Gloves: Compatible chemical-resistant gloves						
	Other Protective Clothing:Lab coat						
	Respiratory Equipment (Specify Type):	NIOSH ap	oproved respirator, as	conditions warrant.			
	Work/Hygienic/Maintenan	Do not tak	ke internally.				
	ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety sho					
		Wash thoroughly after handling.					
		No data a	vailable.				



ayman	Supersedes Revision: 04/12/2015					
	Section 9. Physical and Chemical Properties					
0.1 Information on B	Information on Basic Physical and Chemical Properties					
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 Rat	e: No data.					
Flammability (so	blid, gas): No data available.					
Explosive Limits	LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C					
Vapor Pressure	(vs. Air 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 Wat	ter: No data.					
Octanol/Water P	Partition No data.					
Coefficient:						
Autoignition Pt:	363.00 C					
Decomposition ⁻	Temperature: No data.					
Viscosity:	No data.					
0.2 Other Information	n					
Percent Volatile:	No data.					
Molecular Form	ula & Weight: C20H32O6 368.5					
	Section 10. Stability and Reactivity					
10.1 Reactivity:	No data available.					
10.2 Stability:	Unstable [] Stable [X]					
10.3 Stability Note(s)						
Polymerization:	Will occur [] Will not occur [X]					
-						
10.4 Conditions To A						
	Materials alkali metals					
To Avoid:	ammonia peroxides					
	strong oxidizing agents					
10.6 Hazardous	carbon dioxide					
Decomposition						
Byproducts:						



	HEMICAL				S	upersedes Revis	ion: 04/12/201		
			Section 11. Toxicolog	ical Informa	ation				
11.1 Carcii		ogical Effects: Toxicological	Section 11. Toxicological InformationThe toxicological effects of this product have not been thoroughly studied.Ethanol - Toxicity Data: Oral TDLO (man): 1.14 ml/kg; Oral TDLO (man): 650 mg/kg; Oral LD50(rat): 7,060 mg/kg; Oral LD50 (mouse): 3,450 mg/kg; Oral LD50 (mouse): 10.5 ml/kg; Oral LD50(rat): 7,060 mg/kg; Oral LD50 (mouse): 3,450 mg/kg; Oral LD50 (mouse): 10.5 ml/kg; Oral LD50(rabbit): 6,300 mg/kg; Inhalation LC50 (rat): 20,000 ppm (10h); Inhalation TCLO (human): 1,800ppm (30m); Inhalation TCLO (human): 2,500 mg/m3 (20m); Inhalation LC50 (rat): 5,900 mg/m3(6h); Inhalation LCLO (mouse): 29,300 ppm (7h);Ethanol - Irritation Data: Eyes (rabbit): 500 mg (24h) mild; Skin (rabbit): 20 mg (24h) moderate;Ethanol - Investigated as a mutagen, reproductive effector, and tumorigen.Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.See actual entry in RTECS for complete information.Ethanol RTECS Number: KQ630000						
CAS		i	NTP? No IARC Monographs? I ponents (Chemical Name)	NTP	egulated? No	ACGIH	OSHA		
	30-95-7	20-hydroxy Prost		n.a.	n.a.	n.a.	n.a.		
	-17-5	Ethyl alcohol		n.a.	1	A4	n.a.		
		ļ	Section 12. Ecologic	al Informati	 ion		<u></u>		
12.1	Toxicity:	:	Avoid release into the environment.						
		-	Runoff from fire control or dilution w	ater may cause po	ollution.				
12.2	Persiste	nce and	No data available.						
	Degrada	bility:							
12.3	Bioaccu	mulative	No data available.						
	Potentia	1:							
12.4	Mobility	in Soil:	No data available.						
12.5			No data available.						
	assessm		NI 17 911						
12.6	Other ad	verse effects:	No data available.	<u> </u>					
			Section 13. Disposal						
13.1	Waste D	isposal Method:	Dispose in accordance with local, st		-				
			Section 14. Transpo	ort Informat	ion				
14.1	LAND T	RANSPORT (US	DOT):						
	-	r Shipping Name	-						
DOT Hazard Class:			3 FLAMMABLE L						
U	N/NA Num	nber:	UN1170	Packing Grou	p:	II			
			FLAMMAPELE LICUID						
14.1		RANSPORT (Euro							
	DR/RID SI	hipping Name:	Ethyl Alcohol Solution 1170	Packing Grou	n.	Ш			
-	azard Clas		3 - FLAMMABLE LIQUID	i acking Grou	Ь.	11			
							Aulti region fo		
						N	Iulti-region for		



Revision: 06/06/2017 Supersedes Revision: 04/12/2015

14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Ethyl Alcohol Solution **UN Number:** 1170 Packing Group: Ш 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) 57930-95-7 20-hydroxy Prostaglandin E2 No No No 64-17-5 Ethyl alcohol No No No CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists 20-hydroxy Prostaglandin E2 CAA HAP.ODC: No: CWA NPDES: No: TSCA: No: CA 57930-95-7 PROP.65: No 64-17-5 Ethyl alcohol CAA HAP, ODC: No; CWA NPDES: No; TSCA: Yes -Inventory; 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:** 06/06/2017 Additional Information About No data available. This Product: Company Policy or Disclaimer: DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty,

currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.