

	accordi	ng to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/83	30 and US OSHA HCS 2015				
		Identification of the Substance/Mixture and of the					
1.1	Product Code:	18213					
	Product Name:	Carbaprostacyclin-biotin					
	Synonyms:		oxy-prosta-5E,13E-dien-1-oyl-N-biotinoyl-1,5-dia				
		nopentane; Carbacyclin-biotin; cPGI-biotin;					
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.					
	Web site eddress.	Ann Arbor, MI 48108					
	Web site address:	www.caymanchem.com	.4 (704)074 0005				
	Information:	Cayman Chemical Company	+1 (734)971-3335				
1.4	Emergency telephone nu Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300				
	Emergency contact.	CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
		Section 2. Hazards Identific	ation				
2.1	Classification of the Substance or Mixture:						
	Flammable Liquids, Cat	regory 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.						
2.3	Adverse Human Health	Material may be irritating to the mucous membran					
	Effects and Symptoms:	May be harmful by inhalation, ingestion, or skin ab					
		May cause eye, skin, or respiratory system irritation	on.				
	To the best of our knowledge, the toxicological properties have not been thoroughly investigated						



Multi-region format

CAS RTEC		Hazardous Com						
	CS #	REACH Registra	ponents (Chemical Name)/ Ition No.	Concentration	EC No./ EC Index No.	GHS Classification		
NA NA		Carbaprostacyclin-t	biotin	0.1 %	NA NA	Acute Tox.(I) 4: H332 Acute Tox.(D) 4: H312		
						Acute Tox.(O) 4: H302		
	-17-5	Ethyl alcohol		99.9 %	200-578-6	Flam. Liq. 2: H225		
KQ63	00000	01-2119457610-43			603-002-00-5			
			Section 4. Fi	rst Aid Meas	ures			
4.1		Description of First Aid						
	Measu In Cas	e of Inhalation:	Remove to fresh air. If not bro		al respiration or giv	ve oxygen by trained personnel		
	In Cas	e of Skin Contact:		oap and plenty of w) minutes. Remove contaminate efore reuse.		
	In Cas	e of Eye Contact:	Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes examined and tested by medical personnel.					
	In Case of Ingestion: Wash out mouth with wate			-	-	ive anything by mouth to an ng unless directed to do so by		
4.2	Important Symptoms and May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude							
T. L		s, Both Acute and	(weakness, exhaustion), liver					
	Delaye		(,,,,,,,,,,,,,,,,,,,,,,,,	;g-,,		,		
			Section 5. Fire	Fighting Me	asures			
5.1	Suitab	le Extinguishing	Use alcohol-resistant foam, o	<u> </u>		sprav.		
	Media		Use water spray to cool fire-			-F7.		
		-	g A solid water stream may be	inefficient.				
5.2	Media: Flammable Properties and Can release vapors that form explosive mixtures at temperatures at or above the flashpoint.							
	Hazaro	-	Container explosion may occ	-	-			
			Emits toxic fumes under fire					
			Sensitive to static discharge.					
			Vapors can travel to a source	e of ignition and flas	sh back.			
			No data available.					
	Flash	Pt:	14.00 C Method Used: Cl	osed Cup				
	Explos	sive Limits:	LEL: 3.3% at 25.0 C	UEL: 19.0%	6 at 25.0 C			
	Autoig	nition Pt:	363.00 C					
5.3	Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or							
	equivalent), and full protect Note: Flammable as diluted			ontact with skin an	d eyes.			



			Caporoda	es Revision: 05/01/2013			
		Section 6. Acci	dental Release Measures				
6.1	Protective Precautions,	Avoid breathing vapors	and provide adequate ventilation.				
	 Protective Precautions, Avoid breathing vapors and provide adequate ventilation. Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator 						
	Emergency Procedures		nal protection (rubber boots, safety goggles, and he				
5.2	Environmental		ease into the environment, if safe to do so.	, ,			
	Precautions:						
6.3		or Contain spill and collec	t as appropriate				
5.5			waste container for disposal in accordance with loc	al regulations			
	Up:	ing randon to a onomical		a rogulationo.			
	с р.	Section 7	Handling and Storage				
			Handling and Storage				
7.1		-	me/gas/mist/vapours/spray.				
	in Handling:	Avoid prolonged or repe	-				
		Keep away from source	-				
	Descentions To Do Take		asures against static discharge.				
7.2	Precautions To Be Taken Keep away from heat, sparks, and flame. in Storing: Keep container tightly closed.						
	in Storing:		h information listed on the product insert.				
	Other Precautions:	Hygroscopic	in mornation instea on the product insert.				
	Other Frecautions.						
	Sec	ction 8. Exposure	e Controls/Personal Protection				
8.1	Exposure Parameters:						
CAS	# Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations			
	7-5 Ethyl alcohol	ACGIH TLV	TLV: 1000 ppm				
	-5 Ethyl alcohol	ACGIH TLV France VL	TWA: 1900 mg/m3 (1000 ppm)				
	-5 Ethyl alcohol	France VL	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm)				
	7-5 Ethyl alcohol	France VL OSHA PELs	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm) PEL: 1000 ppm				
	-5 Ethyl alcohol	France VL	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm) PEL: 1000 ppm TWA: 1920 mg/m3 (1000 ppm)				
64-17		France VL OSHA PELs	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm) PEL: 1000 ppm				
64-17 8.2	Exposure Controls:	France VL OSHA PELs Britain EH40	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm) PEL: 1000 ppm TWA: 1920 mg/m3 (1000 ppm) STEL: ()	ntrols to control airborn			
64-17 8.2	Exposure Controls: Engineering Controls	France VL OSHA PELs Britain EH40 Use process enclosures	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm) PEL: 1000 ppm TWA: 1920 mg/m3 (1000 ppm) STEL: () s, local exhaust ventilation, or other engineering cord	ntrols to control airborr			
64-17 8.2 8.2.1	Exposure Controls: Engineering Controls (Ventilation etc.):	France VL OSHA PELs Britain EH40 Use process enclosures levels below recommen	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm) PEL: 1000 ppm TWA: 1920 mg/m3 (1000 ppm) STEL: () s, local exhaust ventilation, or other engineering cord	ntrols to control airborn			
64-17 8.2 8.2.1	Exposure Controls: Engineering Controls (Ventilation etc.): Personal protection equ	France VL OSHA PELs Britain EH40 Use process enclosures levels below recommen	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm) PEL: 1000 ppm TWA: 1920 mg/m3 (1000 ppm) STEL: () s, local exhaust ventilation, or other engineering cord	ntrols to control airborr			
64-17 8.2 8.2.1	Exposure Controls: Engineering Controls (Ventilation etc.): Personal protection equ Eye Protection:	France VL OSHA PELs Britain EH40 Use process enclosures levels below recommen Jipment: Safety glasses	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm) PEL: 1000 ppm TWA: 1920 mg/m3 (1000 ppm) STEL: () s, local exhaust ventilation, or other engineering conded exposure limits.	ntrols to control airborn			
64-17 8.2 8.2.1	Exposure Controls: Engineering Controls (Ventilation etc.): Personal protection equ Eye Protection: Protective Gloves:	France VL OSHA PELs Britain EH40 Use process enclosures levels below recommen Jipment: Safety glasses Compatible chemical-re	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm) PEL: 1000 ppm TWA: 1920 mg/m3 (1000 ppm) STEL: () s, local exhaust ventilation, or other engineering conded exposure limits.	ntrols to control airborn			
64-17 8.2 8.2.1	Exposure Controls: Engineering Controls (Ventilation etc.): Personal protection equ Eye Protection: Protective Gloves: Other Protective Clothin	France VL OSHA PELs Britain EH40 Use process enclosures levels below recommen Jipment: Safety glasses Compatible chemical-re ng: Lab coat	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm) PEL: 1000 ppm TWA: 1920 mg/m3 (1000 ppm) STEL: () s, local exhaust ventilation, or other engineering conded exposure limits. esistant gloves	ntrols to control airborr			
64-17 8.2 8.2.1	Exposure Controls: Engineering Controls (Ventilation etc.): Personal protection equ Eye Protection: Protective Gloves: Other Protective Clothin Respiratory Equipment	France VL OSHA PELs Britain EH40 Use process enclosures levels below recommen Jipment: Safety glasses Compatible chemical-re ng: Lab coat	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm) PEL: 1000 ppm TWA: 1920 mg/m3 (1000 ppm) STEL: () s, local exhaust ventilation, or other engineering conded exposure limits.	ntrols to control airborr			
64-17 8.2 8.2.1	Exposure Controls: Engineering Controls (Ventilation etc.): Personal protection equ Eye Protection: Protective Gloves: Other Protective Clothin Respiratory Equipment (Specify Type):	France VL OSHA PELs Britain EH40 Use process enclosures levels below recommen Jipment: Safety glasses Compatible chemical-re ng: Lab coat NIOSH approved respir	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm) PEL: 1000 ppm TWA: 1920 mg/m3 (1000 ppm) STEL: () s, local exhaust ventilation, or other engineering conded exposure limits. esistant gloves	ntrols to control airborr			
64-17 8.2 8.2.1	Exposure Controls: Engineering Controls (Ventilation etc.): Personal protection equ Eye Protection: Protective Gloves: Other Protective Clothin Respiratory Equipment (Specify Type): Work/Hygienic/Maintena	France VL OSHA PELs Britain EH40 Use process enclosures levels below recommen Jipment: Safety glasses Compatible chemical-re ng: Lab coat NIOSH approved respir	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm) PEL: 1000 ppm TWA: 1920 mg/m3 (1000 ppm) STEL: () s, local exhaust ventilation, or other engineering conded exposure limits. esistant gloves rator, as conditions warrant.				
64-17 8.2 8.2.1	Exposure Controls: Engineering Controls (Ventilation etc.): Personal protection equ Eye Protection: Protective Gloves: Other Protective Clothin Respiratory Equipment (Specify Type):	France VL OSHA PELs Britain EH40 Use process enclosures levels below recommen Jipment: Safety glasses Compatible chemical-re ng: Lab coat NIOSH approved respir an Do not take internally. Facilities storing or utiliz	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm) PEL: 1000 ppm TWA: 1920 mg/m3 (1000 ppm) STEL: () s, local exhaust ventilation, or other engineering conded exposure limits. esistant gloves rator, as conditions warrant. zing this material should be equipped with an eyewa				
64-17 8.2 8.2.1	Exposure Controls: Engineering Controls (Ventilation etc.): Personal protection equ Eye Protection: Protective Gloves: Other Protective Clothin Respiratory Equipment (Specify Type): Work/Hygienic/Maintena	France VL OSHA PELs Britain EH40 Use process enclosures levels below recommen ipment: Safety glasses Compatible chemical-re ng:Lab coat NIOSH approved respir an Do not take internally. Facilities storing or utiliz Wash thoroughly after h	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm) PEL: 1000 ppm TWA: 1920 mg/m3 (1000 ppm) STEL: () s, local exhaust ventilation, or other engineering conded exposure limits. esistant gloves rator, as conditions warrant. zing this material should be equipped with an eyewa				
64-17 8.2 8.2.1 8.2.2	Exposure Controls: Engineering Controls (Ventilation etc.): Personal protection equ Eye Protection: Protective Gloves: Other Protective Clothin Respiratory Equipment (Specify Type): Work/Hygienic/Maintena	France VL OSHA PELs Britain EH40 Use process enclosures levels below recommen Jipment: Safety glasses Compatible chemical-re ng: Lab coat NIOSH approved respir an Do not take internally. Facilities storing or utiliz	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm) PEL: 1000 ppm TWA: 1920 mg/m3 (1000 ppm) STEL: () s, local exhaust ventilation, or other engineering conded exposure limits. esistant gloves rator, as conditions warrant. zing this material should be equipped with an eyewa				
64-17 8.2 8.2.1	Exposure Controls: Engineering Controls (Ventilation etc.): Personal protection equ Eye Protection: Protective Gloves: Other Protective Clothin Respiratory Equipment (Specify Type): Work/Hygienic/Maintena	France VL OSHA PELs Britain EH40 Use process enclosures levels below recommen ipment: Safety glasses Compatible chemical-re ng:Lab coat NIOSH approved respir an Do not take internally. Facilities storing or utiliz Wash thoroughly after h	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm) PEL: 1000 ppm TWA: 1920 mg/m3 (1000 ppm) STEL: () s, local exhaust ventilation, or other engineering conded exposure limits. esistant gloves rator, as conditions warrant. zing this material should be equipped with an eyewa				
64-17 8.2 8.2.1	Exposure Controls: Engineering Controls (Ventilation etc.): Personal protection equ Eye Protection: Protective Gloves: Other Protective Clothin Respiratory Equipment (Specify Type): Work/Hygienic/Maintena	France VL OSHA PELs Britain EH40 Use process enclosures levels below recommen ipment: Safety glasses Compatible chemical-re ng:Lab coat NIOSH approved respir an Do not take internally. Facilities storing or utiliz Wash thoroughly after h	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm) PEL: 1000 ppm TWA: 1920 mg/m3 (1000 ppm) STEL: () s, local exhaust ventilation, or other engineering conded exposure limits. esistant gloves rator, as conditions warrant. zing this material should be equipped with an eyewa				
64-17 8.2 8.2.1	Exposure Controls: Engineering Controls (Ventilation etc.): Personal protection equ Eye Protection: Protective Gloves: Other Protective Clothin Respiratory Equipment (Specify Type): Work/Hygienic/Maintena	France VL OSHA PELs Britain EH40 Use process enclosures levels below recommen ipment: Safety glasses Compatible chemical-re ng:Lab coat NIOSH approved respir an Do not take internally. Facilities storing or utiliz Wash thoroughly after h	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm) PEL: 1000 ppm TWA: 1920 mg/m3 (1000 ppm) STEL: () s, local exhaust ventilation, or other engineering conded exposure limits. esistant gloves rator, as conditions warrant. zing this material should be equipped with an eyewa				
64-17 8.2 8.2.1	Exposure Controls: Engineering Controls (Ventilation etc.): Personal protection equ Eye Protection: Protective Gloves: Other Protective Clothin Respiratory Equipment (Specify Type): Work/Hygienic/Maintena	France VL OSHA PELs Britain EH40 Use process enclosures levels below recommen ipment: Safety glasses Compatible chemical-re ng:Lab coat NIOSH approved respir an Do not take internally. Facilities storing or utiliz Wash thoroughly after h	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm) PEL: 1000 ppm TWA: 1920 mg/m3 (1000 ppm) STEL: () s, local exhaust ventilation, or other engineering conded exposure limits. esistant gloves rator, as conditions warrant. zing this material should be equipped with an eyewa				



	ection 9. Physical and Chemical Properties sical and Chemical Properties []Gas [X] Liquid []Solid A solution in ethanol No data. No data. No data. 14.00 C Method Used: Closed Cup
Physical States: Appearance and Odor: DH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate:	[] Gas [X] Liquid [] Solid A solution in ethanol No data. No data. No data. 14.00 C Method Used: Closed Cup
Appearance and Odor: DH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate:	A solution in ethanol No data. No data. No data. 14.00 C Method Used: Closed Cup
oH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate:	No data. No data. No data. 14.00 C Method Used: Closed Cup
Melting Point: Boiling Point: Flash Pt: Evaporation Rate:	No data. No data. 14.00 C Method Used: Closed Cup
Boiling Point: Flash Pt: Evaporation Rate:	No data. 14.00 C Method Used: Closed Cup
Flash Pt: Evaporation Rate:	14.00 C Method Used: Closed Cup
Evaporation Rate:	
-	
Flammability (solid, gas):	No data.
, (···, 3···,	No data available.
Explosive Limits:	LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C
/apor Pressure (vs. Air or I g):	r mm 43 MM_HG at 20.0 C
/apor Density (vs. Air = 1)): No data.
Specific Gravity (Water = ²	1): No data.
Solubility in Water:	No data.
Octanol/Water Partition	No data.
Coefficient:	
Autoignition Pt:	363.00 C
Decomposition Temperatu	ure: No data.
/iscosity:	No data.
ther Information	
Percent Volatile:	No data.
Molecular Formula & Weig	ght: C36H60N4O5S 661.0
	Section 10. Stability and Reactivity
Reactivity:	No data available.
-	Unstable [] Stable [X]
-	Stable if stored in accordance with information listed on the product insert.
	Will occur [] Will not occur [X]
-	heat, flames, and sparks
	ammonia
	peroxides
	strong oxidizing agents
lazardous	carbon dioxide
	carbon monoxide
-	
	apor Density (vs. Air = 1) pecific Gravity (Water = olubility in Water: octanol/Water Partition coefficient: utoignition Pt: ecomposition Temperate iscosity: ther Information ercent Volatile:



(rat): 7,060 mg/kg; Oral LD50 (mouse): 3,450 mg/kg; Oral LD50 (mouse): 10.5 ml/kg; Oral LD50 (mouse): 10.5 ml/kg; Oral LD50 (mouse): 10.5 ml/kg; Oral LD50 (mouse): 20.000 ppm (10h); Inhilation LC20 (rat): 5,900 (6h); Inhilation LC20 (mouse): 29,300 ppm (7h); Ethanol - Irritation Data: Eyes (rabbil): 500 mg (24h) mild: Skin (rabbil): 20 mg (24h) mild: Skin (rabb	e toxicological effects of this product have not been thoroughly studied. hanol - Toxicity Data: Oral TDLO (man): 1.14 ml/kg; Oral TDLO (man): 650 mg/kg; Oral LD50 ti): 7,060 mg/kg; Oral LD50 (mouse): 3,450 mg/kg; Oral LD50 (mouse): 10.5 ml/kg; Oral LD50 bibli): 6,300 mg/kg; Inhalation LC50 (rat): 20,000 ppm (10h); Inhalation TCLO (human): 1,800 mg (30m); Inhalation TCLO (human): 2,500 mg/m3 (20m); Inhalation LC50 (rat): 5,900 mg/m3 n); Inhalation LCLO (mouse): 29,300 ppm (7h); hanol - Irritation Data: Eyes (rabbil): 500 mg (24h) mild; Skin (rabbil): 20 mg (24h) moderate; hanol - Investigated as a mutagen, reproductive effector, and tumorigen. Ity select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. te actual entry in RTECS for complete information. hanol RTECS Number: KQ6300000 IPP N IARC Monographs? NO OSHA Regulated? NO tents (Chemical Name) NTP IARC ACGIH OSHA otin n.a. n.a. n.a. n.a. n.a. Section 12. Ecological Information roid release into the environment. unoff from fire control or dilution water may cause pollution. o data available. o data available. D
Toxicological Effects: Ethanol - Toxicity Data: Oral TDLO (man): 1.14 ml/kg: Oral TDLO (man): 650 mg/kg: O (mai): 7.060 mg/kg: Oral LD50 (mouse): 10.5 ml/kg: Oral TDLO (man): 2.500 mg/m/(h). Inhalation TCLO (human): 2.500 mg/m/(h). Inhalation TCLO (human): 2.500 mg/m/(h). Inhalation TCLO (mouse): 29, 300 ppm (7h): Ethanol - Investigated as a mutagen, reproductive effector, and tumorigen. Ethanol - Investigated as a mutagen, reproductive effector, and tumorigen. Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is present Sce actual entry in RTECS for complete information. Ethanol - Investigated as a mutagen, reproductive effector, and tumorigen. Ethanol - Investigated as a mutagen, reproductive effector, and tumorigen. Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is present Sce actual entry in RTECS for complete information. Ethanol - Intradino Data: Experiments. Ethanol - Inna. A Cathaprostacyclin-biotin n.a. 64:17-5 Ethyl alcohol Via data available. Nodata available. Peristience and No data available. Potential: No data available. 12.4 Potential: 12.5 Result of PBT and vPVB No data available. Section 13. Disposal Considerations 13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal	hanol - Toxicity Data: Oral TDLO (man): 1.14 ml/kg; Oral TDLO (man): 650 mg/kg; Oral LD50 (mouse): 3.450 mg/kg; Oral LD50 (mouse): 10.5 ml/kg; Oral LD50 (bbi): 6.300 mg/kg; Oral LD50 (mouse): 3.450 mg/kg; Oral LD50 (mouse): 10.5 ml/kg; Oral LD50 (bbi): 6.300 mg/kg; Inhalation TCLO (human): 2.500 mg/m3 (20m); Inhalation TCLO (human): 2.500 mg/m3 (20m); Inhalation LC50 (rat): 5.900 mg/m3 (rat); Inhalation LC50 (rat): 5.900 mg/m3 (rat); Inhalation LC50 (rat): 5.900 mg/m3 (rat); Inhalation L
See actual entry in RTECS for complete information. Ethanol RTECS Number: K0630000 Carcinogenicity: NTP? No OSHA Regulated? No CAS # Hazardous Components (Chemical Name) NTP IARC Monographs? No OSHA Regulated? No CAS # Hazardous Components (Chemical Name) NTP IARC Monographs? No OSHA Regulated? No CAS # Hazardous Components (Chemical Name) NTP IARC Monographs? No OSHA Regulated? No CAS # Hazardous Components (Chemical Name) NTP IARC Monographs? No OSHA Regulated? No Carbiaprostacyclin-biotin n.a.	e actual entry in RTECS for complete information. hanol RTECS Number: KQ6300000 TP? No IARC Monographs? No OSHA Regulated? No Tents (Chemical Name) NTP IARC ACGIH OSHA otin n.a. n.a. n.a. n.a. n.a. n.a. n.a. n.a. n.a. n.a. n.a. Section 12. Ecological Information Toid release into the environment. Inoff from fire control or dilution water may cause pollution. to data available. to data available. to data available. to data available. to data available. Section 13. Disposal Considerations spose in accordance with local, state, and federal regulations. Section 14. Transport Information T; Ethyl Alcohol Solution 3 FLAMMABLE LIQUID 1170 Packing Group: II Ethyl Alcohol Solution 1170 Packing Group: II
Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH C NA Carbaprostacyclin-biotin n.a. n.a.<	IPP No IARC Monographs? No OSHA Regulated? No Immus (Chemical Name) ITP IARC ACGIH OSHA otin n.a. n.a. n.a. n.a. n.a. otin n.a. n.a. n.a. n.a. n.a. otin n.a. 1 A4 n.a. otin n.a. 1 A4 n.a. Section 12. Ecological Information otin n.a. n.a. odda release into the environment. ondit release into the environment. odata available. o data available. odata available. odata available. odata available. o data available. odata available. odata available. o data available. odata available. odata available. Section 13. Disposal Considerations socose in accordance with local, state, and federal regulations. Section 14. Transport Information T T 1170 Packing Group: I
CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH C NA Carbaprostacyclin-biotin n.a. n.a. <td>Image: NTP IARC ACGIH OSHA otin n.a. n.a. n.a. n.a. n.a. n.a. n.a. n.a. n.a. otid release into the environment. indiff from fire control or dilution water may cause pollution. odata available. o data available. odata available. odata available. Section 13. Disposal Considerations spose in accordance with local, state, and federal regulations. Section 14. Transport Information Transport Information T: Ethyl Alcohol Solution 1 3 FLAMMABLE LIQUID 1170 1170 Packing Group: II Ethyl Alcohol Solution 1 1 1170 Packing Group: II</td>	Image: NTP IARC ACGIH OSHA otin n.a. n.a. n.a. n.a. n.a. n.a. n.a. n.a. n.a. otid release into the environment. indiff from fire control or dilution water may cause pollution. odata available. o data available. odata available. odata available. Section 13. Disposal Considerations spose in accordance with local, state, and federal regulations. Section 14. Transport Information Transport Information T: Ethyl Alcohol Solution 1 3 FLAMMABLE LIQUID 1170 1170 Packing Group: II Ethyl Alcohol Solution 1 1 1170 Packing Group: II
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64-17-5 Ethyl alcohol n.a. 1 A4 n Section 12. Ecological Information 12.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 12.2 Persistence and Degradability: No data available. Degradability: No data available. 12.3 Bioaccumulative Potential: No data available. Void release into the environment. Runoff from fire control or dilution water may cause pollution. 12.5 Results of PBT and vPVB No data available. Void release value. 12.6 Other adverse effects: No data available. Void release value. Section 13. Disposal Considerations Section 14. Transport Information 14.1 LAND TRANSPORT (US DOT): DOT Proper Shipping Name: Ethyl Alcohol Solution DOT Hazard Class: 3 FLAMMABLE LIQUID UN/NA Number: II ADR/RID Shipping Name: Ethyl Alcohol Solution LIAD TRANSPORT (European ADR/RID): ADR/RID Shipping Name: Ethyl Alcohol Solution UNIVA Number: 1170 Packing Group: II	n.a. 1 A4 n.a. Section 12. Ecological Information roid release into the environment. unoff from fire control or dilution water may cause pollution. o data available. Section 13. Disposal Considerations Section 14. Transport Information T: Ethyl Alcohol Solution 3 FLAMMABLE LIQUID 1170 Packing Group: II Ithyl Alcohol Solution 1170 Packing Group: II
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ADR/RID Shipping Name:Ethyl Alcohol SolutionUN Number:1170Packing Group:	Ethyl Alcohol Solution 1170 Packing Group: II
	3 - FLAMMABLE LIQUID



Revision: 08/07/2018 Supersedes Revision: 05/01/2013

14.3 AIR TRANSPORT (ICAO/IATA): **ICAO/IATA Shipping Name: Ethyl Alcohol Solution UN Number:** 1170 Packing Group: Ш Hazard Class: **IATA Classification:** 3 - FLAMMABLE LIQUID 3 **Additional Transport** Transport in accordance with local, state, and federal regulations. When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of Information: 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) NA Carbaprostacyclin-biotin No No No No 64-17-5 Ethyl alcohol No No No No CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists NA Carbaprostacyclin-biotin CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No 64-17-5 Ethyl alcohol CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No 64-17-5 Ethyl alcohol CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No Regulatory Information This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) Statement: No No No Matter Information Revision Date: 08/07/2018 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 warran			Section 15. Regu			
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CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists NA Carbaprostacyclin-biotin CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No 64-17-5 Ethyl alcohol CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No Regulatory Information This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) Statement: No.1272/2008. Section 16. Other Information Revision Date: 08/07/2018 Additional Information About No data available. This Product: 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 warr express or implied, with respect to such information, and we assume no liability resulting from use. Users should make their own investigations to determine the suitability of the information	NA	Carbaprostacycli	n-biotin	No	No	No
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Additional Information About No data available. This Product: 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 warr express or implied, with respect to such information, and we assume no liability resulting from use. Users should make their own investigations to determine the suitability of the information			Section 16. Ot	her Information	on	
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 warr express or implied, with respect to such information, and we assume no liability resulting from use. Users should make their own investigations to determine the suitability of the information	Revision Date):	08/07/2018			
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their particular purposes.			currently available to us. Howe express or implied, with respec	ever, we make no wa et to such informatior	rranty of merchantan, and we assume r	ability or any other warrant no liability resulting from its