

## SAFETY DATA SHEET Limaprost-d3

Revision: 08/04/2018

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	<u> </u>		0 and US OSHA HCS 2015						
	Section 1. Ide	entification of the Substance/Mixture and of th	ne Company/Undertaking						
.1	Product Code:	25416							
	Product Name:	Limaprost-d3							
	Synonyms:	(E)-7-((1R,2R,3R)-3-hydroxy-2-((3S,5S,E)-3-hy	ydroxy-5-(methyl-d3)non-1-en-1-yl)-5-oxocyclope						
		tyl)hept-2-enoic acid; 17.alpha.,20-dimethylde							
	17.alpha.,20-dimethyldelta.2-Prostaglandin E1-d3;								
.2	Relevant identified uses of the substance or mixture and uses advised against:								
	Relevant identified uses:	For research use only, not for human or vetering	nary use.						
.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						
.4	Emergency telephone numb								
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300						
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887						
		Section 2. Hazards Identifica	ation						
.1	Classification of the Substar	nce or Mixture:							
	Acute Toxicity: Oral, Category 2								
	Skin Corrosion/Irritation, Category 2								
2.2	Serious Eye Damage/Eye I Label Elements:								
.2	Serious Eye Damage/Eye I								
.2	Serious Eye Damage/Eye I								
.2	Serious Eye Damage/Eye I Label Elements:	Irritation, Category 2							
.2	Serious Eye Damage/Eye I Label Elements: OFIN CONTRACTOR OF CONTRACTOR O	Irritation, Category 2							
.2	Serious Eye Damage/Eye I Label Elements: GHS Signal Word: GHS Hazard Phrases:	Irritation, Category 2 Danger							
.2	Serious Eye Damage/Eye I Label Elements: GHS Signal Word: GHS Hazard Phrases: H300: Fatal if swallowed.	Irritation, Category 2 Danger							
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.2	Serious Eye Damage/Eye I Label Elements: GHS Signal Word: GHS Hazard Phrases: H300: Fatal if swallowed. H315: Causes skin irritation. H319: Causes serious eye in	rritation, Category 2 Danger							
.2	Serious Eye Damage/Eye I Label Elements: GHS Signal Word: GHS Hazard Phrases: H300: Fatal if swallowed. H315: Causes skin irritation. H319: Causes serious eye in GHS Precaution Phrases: P264: Wash {hands} thoroug	rritation, Category 2 Danger	on}.						
.2	Serious Eye Damage/Eye I Label Elements: GHS Signal Word: GHS Hazard Phrases: H300: Fatal if swallowed. H315: Causes skin irritation. H319: Causes serious eye in GHS Precaution Phrases: P264: Wash {hands} thoroug	rritation, Category 2 Danger rritation.	on}.						
.2	Serious Eye Damage/Eye I Label Elements: GHS Signal Word: GHS Hazard Phrases: H300: Fatal if swallowed. H315: Causes skin irritation. H319: Causes serious eye in GHS Precaution Phrases: P264: Wash {hands} thoroug P280: Wear {protective glove GHS Response Phrases:	rritation, Category 2 Danger rritation.							
.2	Serious Eye Damage/Eye I Label Elements: GHS Signal Word: GHS Hazard Phrases: H300: Fatal if swallowed. H315: Causes skin irritation. H319: Causes serious eye in GHS Precaution Phrases: P264: Wash {hands} thoroug P280: Wear {protective glow GHS Response Phrases: P301+310: IF SWALLOWED	rritation, Category 2 Danger rritation. ghly after handling. es/protective clothing/eye protection/face protectio							
.2	Serious Eye Damage/Eye I Label Elements:	rritation, Category 2 Danger rritation. ghly after handling. es/protective clothing/eye protection/face protection D: Immediately call a POISON CENTER or doctor	/physician.						
.2	Serious Eye Damage/Eye I Label Elements:	Tritation, Category 2 Danger Tritation. ghly after handling. es/protective clothing/eye protection/face protection D: Immediately call a POISON CENTER or doctor sh with plenty of soap and water.	/physician.						
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.2	Serious Eye Damage/Eye I Label Elements:	Tritation, Category 2 Danger Tritation. ghly after handling. es/protective clothing/eye protection/face protection C: Immediately call a POISON CENTER or doctor sh with plenty of soap and water. E: Rinse cautiously with water for several minutes.	/physician.						
.2	Serious Eye Damage/Eye I Label Elements:	Tritation, Category 2 Danger Tritation. ghly after handling. es/protective clothing/eye protection/face protection C: Immediately call a POISON CENTER or doctor sh with plenty of soap and water. E: Rinse cautiously with water for several minutes. ccurs, get medical advice/attention.	/physician.						
.2	Serious Eye Damage/Eye I Label Elements:	Tritation, Category 2 Danger Tritation. Shy after handling. Shy after handling. Shy after handling. Shy after handling. Discretive clothing/eye protection/face protection Discretive clothing/eye protection/face protective Discretive clothing/eye protection/face protective Discretive clothing/eye protective clothing/eye protective clothing/eye protective Discretive clothing/eye protective clothing/eye proteclothing/eye protective clothing/eye protective clothing/ey	/physician.						

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2.3	Advers	e Human Health	Causes serious eye irritation.				
	Effects and Symptoms:		Causes skin irritation. Fatal if swallowed.				
			Material may be irritating to the	he mucous membrar	nes and upper res	spiratory tract.	
			May be harmful by inhalation				
			May cause respiratory syster	-			
			To the best of our knowledge	, the toxicological pr	operties have no	t been thoroughly investigated.	
		Sect	tion 3. Composition	/Information	on Ingredie	nts	
CAS RTEC		Hazardous Comp REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification	
12631 NA	90-37-9	Limaprost-d3		100.0 %	NA NA	Acute Tox.(O) 2: H300 Eye Damage 2: H319 Skin Corr. 2: H315	
			Section 4. Fi	rst Aid Measu	ures		
4.1	Descrip	otion of First Aid					
	Measur						
	In Case	e of Inhalation:	Remove to fresh air. If not bre Get immediate medical attent		l respiration or giv	ve oxygen by trained personnel.	
	In Case	of Skin Contact:	Immediately wash skin with s	oap and plenty of wa	ater for at least 15	5 minutes. Remove contaminated	
			clothing. Get medical attentio	n if symptoms occur	. Wash clothing b	efore reuse.	
	In Case	of Eye Contact:	Hold eyelids apart and flush e	eyes with plenty of w	ater for at least 1	5 minutes. Have eyes examined	
			and tested by medical person	inel.			
	In Case	e of Ingestion:	Wash out mouth with water p	-	-		
			unconscious person. Get med medical personnel.	dical attention. Do N	OT induce vomiti	ng unless directed to do so by	
			Section 5. Fire	Fighting Mea	asures		
5.1	Suitabl Media:	e Extinguishing	Use alcohol-resistant foam, o Use water spray to cool fire-e		r, or dry chemical	spray.	
		able Extinguishing	A solid water stream may be	-			
	Media:						
5.2		able Properties an	<b>d</b> No data available.				
	Hazard	s:					
			No data available.				
	Flash P	Pt:	No data.				
	Explosi	ive Limits:	LEL: No data.	UEL: No da	ata.		
	Autoig	nition Pt:	No data.				
5.3	Fire Fig	ghting Instructions	:As in any fire, wear self-conta	ained breathing appa	aratus pressure-d	emand (NIOSH approved or	
	_		equivalent), and full protective	e gear to prevent co	ntact with skin an	id eyes.	
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		Section 6. Accidental Release Measures
6.1	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:	and appropriate personal protection (rubber boots, 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 prolonged or repeated exposure.
7.2	Precautions To Be Taken	Keep container tightly closed.
	in Storing:	Store in accordance with information listed on the product insert.
	Sect	ion 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	
8.2	Exposure Controls:	
8.2.1	Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne
	(Ventilation etc.):	levels below recommended exposure limits.
8.2.2	Personal protection equip	ment:
	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.
		No data available.
	Se	ection 9. Physical and Chemical Properties
9.1	Information on Basic Phys	ical and Chemical Properties
	Physical States:	[]Gas []Liquid [X]Solid
	Appearance and Odor:	A solid
	pH:	No data.
	Melting Point:	No data.
	Boiling Point:	No data.
	Flash Pt:	No data.
	Evaporation Rate:	No data.
	Flammability (solid, gas):	No data available.
	Explosive Limits:	LEL: No data. UEL: No data.
	Vapor Pressure (vs. Air or	mm No data.
	Hg): Veper Density (ve_Air = 1)	: No data.
	Vapor Density (vs. Air = 1)	I INU UALA.
		Multi-region format



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Byproducts:

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<b>J</b>	Limaprost-d3	Devision 00/04/0010
man	-	Revision: 08/04/2018
Specific Gravity (Water	= 1): No data.	
Solubility in Water:	No data.	
Solubility Notes:	Soluble in: MeOH;	
<b>Octanol/Water Partition</b>	No data.	
Coefficient:		
Autoignition Pt:	No data.	
Decomposition Tempera	ature: No data.	
Viscosity:	No data.	
Other Information		
Percent Volatile:	No data.	
Molecular Formula & W	eight: C22H33D3O5 383.5	
	Section 10. Stability and Reactivity	
Reactivity:	No data available.	
Stability:	Unstable [ ] Stable [ X ]	
Stability Note(s):	Stable if stored in accordance with information listed on the product inser	t.
Polymerization:	Will occur [ ] Will not occur [ X ]	
Conditions To Avoid:	No data available.	
Incompatibility - Materia	Is strong oxidizing agents	
To Avoid:		
Hazardous	carbon dioxide	
Decomposition or	carbon monoxide	

## Section 11. Toxicological Information

11.1	Information on	The toxicological effects of this product have not been thoroughly studied.

I oxicological Effects:		
Carcinogenicity:	NTP? No	I/

ARC Monographs? No

**OSHA Regulated? No** 

CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
1263 <sup>-</sup>	1263190-37-9 Limaprost-d3			n.a.	n.a.	n.a.	n.a.	
			Section 12. Ecological Ir	formatio	n			
12.1	Toxicity:		Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.					
12.2	Persiste Degrada		No data available.					
12.3	Bioaccu Potentia		No data available.					
12.4	Mobility	in Soil:	No data available.					
12.5	Results of assessm		No data available.					
12.6	Other ad	verse effects:	No data available.					

Multi-region format



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CHEMICAL		Section 12 Diana	al Canaidara	tiona	
0.4 M/		Section 13. Dispo			
3.1 Waste D	isposal Method:	-		-	
		Section 14. Trar	nsport Informa	ation	
14.1 LAND T	RANSPORT (US	DOT):			
-	er Shipping Name	-	. (Limaprost-d3)		
DOT Hazar		6.1 POISON			
UN/NA Nur	nber:	UN2811	Packing Gro	oup:	II
		POISON 6			
14.1 LAND T	RANSPORT (Eur	opean ADR/RID):			
	hipping Name:	Toxic solids, organic, n.o.s			
UN Numbe Hazard Cla		2811 6.1 - POISON	Packing Gro	oup:	II
	ANSPORT (ICAO/				
	Shipping Name:	Toxic solids, organic, n.o.s	. (Limaprost-d3)		
UN Numbe		2811 Packing Group:		П	
Hazard Cla	SS:	6.1 - POISON	IATA Classification:		6.1
Additional Tra	nsport	Transport in accordance with	ocal, state, and feder	al regulations.	
Information:		When sold in quantities of less E1, E2, E4, or E5, this item me Therefore packaging does not	eets the De Minimis C	Quantities exemptio	n, per IATA 2.6.10.
		Section 15. Regu	llatory Informa	ation	
EPA SARA (Si	perfund Amendn	nents and Reauthorization Act	-		
CAS #		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
1263190-37-9	Limaprost-d3		No	No	No
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or	State Lists	
1263190-37-9	Limaprost-d3		CAA HAP,ODC: I PROP.65: No	No; CWA NPDES:	No; TSCA: No; CA
Regulatory Info Statement:	ormation	This SDS was prepared in acc No.1272/2008.	ordance with 29 CFR	1910.1200 and Re	egulation (EC)
		Section 16. Ot	her Informatio	n	
Revision Date:		08/04/2018			
Additional Info This Product:	rmation About	No data available.			
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