

Revision: 08/07/2018 Supersedes Revision: 08/25/2014

		ng to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/83					
	Section 1.	Identification of the Substance/Mixture and of the	he Company/Undertaking				
.1	Product Code:	18230					
	Product Name:	Beraprost (sodium salt)					
	Synonyms:		4-methyl-1-octen-6-ynyl)-1H-cyclopenta[b]benzo				
		an-5-butanoic acid, monosodium salt; ML 1129	9; Procyclin; TRK 100;				
.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 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 nu						
.4	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300				
	Emergency contact.	CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
		Section 2 Hazarda Identifia					
		Section 2. Hazards Identification	allon				
2.1	Classification of the Subs	stance or Mixture:					
	Acute Toxicity: Oral, Ca	ategory 2					
2.2	Label Elements:						
	GHS Signal Word:	Danger					
	GHS Hazard Phrases:	-					
	H300: Fatal if swallowed.						
	GHS Precaution Phrase	es:					
	P264: Wash {hands} thoroughly after handling.						
	GHS Response Phrases:						
	P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.						
	P330: Rinse mouth.						
	GHS Storage and Disposal Phrases:						
		for Storage and Section 13 for Disposal information.					
2.3	Adverse Human Health	Fatal if swallowed.					
	Effects and Symptoms:	Material may be irritating to the mucous membrane	es and upper respiratory tract.				
		May be harmful by inhalation or skin absorption. May cause eye, skin, or respiratory system irritatio					
	To the best of our knowledge, the toxicological properties have not been thoroughly investig						

Multi-region format



Revision: 08/07/2018 Supersedes Revision: 08/25/2014

		1	tion 3. Composition			1
CAS RTE	#/ CS #	Hazardous Comp REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification
	75-69-8 780000	Beraprost (sodium s	alt)	100.0 %	685-277-1 NA	Acute Tox.(O) 2: H300
		·	Section 4. Fi	rst Aid Meas	ures	•
4.1	Descrip	tion of First Aid				
	Measur					
	In Case	of Inhalation:	Remove to fresh air. If not bro Get immediate medical atten		al respiration or giv	ve oxygen by trained personnel.
	In Case	of Skin Contact:	Immediately wash skin with s clothing. Get medical attention			5 minutes. Remove contaminated before reuse.
	In Case	of Eye Contact:	Hold eyelids apart and flush or and tested by medical persor		vater for at least 1	5 minutes. Have eyes examined
	In Case	of Ingestion:	Wash out mouth with water p unconscious person. Get me medical personnel.	-	-	ive anything by mouth to an ng unless directed to do so by
			Section 5. Fire	Fighting Me	asures	
5.1	Suitable Media:	e Extinguishing	Use alcohol-resistant foam, o Use water spray to cool fire-o		-	spray.
		ble Extinguishing	A solid water stream may be	-		
5.2	Flamma	able Properties an	<b>d</b> No data available.			
	Hazard	s:				
			No data available.			
	Flash P	t:	No data.			
	Explosi	ve Limits:	LEL: No data.	UEL: No d	ata.	
	Autoigr	nition Pt:	No data.			
5.3	Fire Fig	hting Instructions	As in any fire, wear self-cont equivalent), and full protectiv		-	
			Section 6. Accider	ntal Release	Measures	
6.1	Protect	ive Precautions, ive Equipment an ency Procedures:	Avoid raising and breathing d As conditions warrant, wear and appropriate personal pro	a NIOSH approved	self-contained bre	eathing apparatus, or respirator,
6.2	Enviror Precaut		Take steps to avoid release	into the environmer	nt, if safe to do so.	
6.3			r Contain spill and collect, as	appropriate.		
			ngTransfer to a chemical wast		osal in accordance	with local regulations.
	Up:					
			Section 7. Har	ndling and St	orage	
<b></b> 7.1	Precaut	tions To Be Taken	Avoid breathing dust/fume/ga		•	
	in Hand		Avoid prolonged or repeated			
7.2			Keep container tightly closed	-		
	in Stori		Store in accordance with info		e product insert.	
						Multi-region forma



Page: 3 of 5

	Seci	tion 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 airborn			
	(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			
	<b>Respiratory Equipment</b>	NIOSH approved respirator, as conditions warrant.			
	(Specify Type):				
	Work/Hygienic/Maintenar	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.			
		No data available.			
	S	ection 9. Physical and Chemical Properties			
9.1		sical and Chemical Properties			
	Physical States:	[]Gas []Liquid [X]Solid			
	Appearance and Odor:	A crystalline 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 o	r mm No data.			
	Hg):				
	Vapor Density (vs. Air = 1	): No data.			
	Specific Gravity (Water =	1): No data.			
	Solubility in Water:	No data.			
	Solubility Notes:	~19 mg/ml in PBS (pH 7.2); ~22 mg/ml in EtOH, DMSO, & DMF;			
	Octanol/Water Partition	No data.			
	Coefficient:				
	Autoignition Pt:	No data.			
	Decomposition Temperat	ure: No data.			
	Viscosity:	No data.			
9.2	Other Information				
	Percent Volatile:	No data.			
		ght: C24H29O5 · Na 420.5			



Revision: 08/07/2018 Supersedes Revision: 08/25/2014

					Supe	ersedes Revis	ion: 08/25/2014	
			Section 10. Stability and	Reactivit	у			
10.1	Reactivit	iy:	No data available.					
10.2	Stability	:	Unstable [ ] Stable [ X ]					
10.3	Stability	Stability Note(s): Stable if stored in accordance with information listed on the product insert.						
	Polymer	ization:	Will occur [ ] Will not occur [ X ]					
10.4	Conditio	ns To Avoid:	No data available.					
10.5	Incompa	tibility - Materials	strong oxidizing agents					
	To Avoid	1:						
10.6	Hazardo	us	carbon dioxide					
	Decomp	osition or	carbon monoxide					
	Byprodu	cts:	sodium oxides					
			Section 11. Toxicological	Informati	on			
11.1	Informat	ion on	The toxicological effects of this product ha	ve not been th	oroughly stud	ied.		
	Toxicolo	gical Effects:	Beraprost (sodium salt) - Toxicity Data: Or	al LD50 (rat):	11600 µg/kg;	Subcutaneo	us LD50 (rat):	
			7400 µg/kg; Oral LDLO (mouse): 30 mg/kg	; Subcutaneo	us LD50 (mou	ıse): 26700 j	µg/kg;	
	Chronic	Toxicological	Beraprost (sodium salt) - Investigated as a	drug and rep	oductive effe	ctor.		
	Effects:		Only select Registry of Toxic Effects of Ch	emical Substa	nces (RTECS	6) data is pre	sented here.	
			See actual entry in RTECS for complete information.					
			Beraprost (sodium salt) RTECS Number: 0	GY0780000				
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
8847	75-69-8	Beraprost (sodiur	n salt)	n.a.	n.a.	n.a.	n.a.	
			Section 12. Ecological Ir	formatio	<u> </u>	•	ł	
12.1	Toxicity: Avoid release into the environmen							
	-		Runoff from fire control or dilution water may cause pollution.					
12.2	Persiste	nce and	No data available.					
	Degrada	bility:						
12.3	Bioaccu	mulative	No data available.					
	Potentia	l:						
12.4	Mobility	in Soil:	No data available.					
12.5	Results	of PBT and vPvB	No data available.					
	assessm	ent:						
12.6	Other ad	verse effects:	No data available.					
			Section 13. Disposal Con	sideratio	าร			
13.1	Waste D	isposal Method:	Dispose in accordance with local, state, ar					
				0				
						N	Iulti-region for	



Revision: 08/07/2018 Supersedes Revision: 08/25/2014

				Supe	rsedes Revision: 08/25/2014	
		Section 14. Trar	nsport Informat	ion		
14.1 LAND T	RANSPORT (US	DOT):				
DOT Prope	er Shipping Name	Toxic solid, organic, n.o.s.	(Beraprost (sodium sa	t))		
DOT Hazar	d Class:	6.1 POISON				
UN/NA Nur	mber:	UN2811	Packing Group:		III	
		POISON 6				
14.1 LAND T	RANSPORT (Eur	opean ADR/RID):				
ADR/RID S	hipping Name:	Toxic solid, organic, n.o.s.	(Beraprost (sodium sa	t))		
UN Numbe	er:	2811	Packing Grou	ıp:	III	
Hazard Cla	ISS:	6.1 - POISON				
14.3 AIR TR	ANSPORT (ICAO/	ATA):				
ICAO/IATA	Shipping Name:	Toxic solid, organic, n.o.s.	(Beraprost (sodium sa	t))		
UN Numbe		2811	Packing Grou	-	III	
Hazard Cla	ISS:	6.1 - POISON	IATA Classifi	cation:	6.1	
Additional Tra	nsport	Transport in accordance with local, state, and federal regulations.				
Information:		When sold in quantities of less	-	-		
		E1, E2, E4, or E5, this item me		-	-	
		Therefore packaging does not	have to be labeled as	Dangerous Good	s/Excepted Quantity.	
		Section 15. Regu	llatory Informa	tion		
EPA SARA (Sı	uperfund Amendm	nents and Reauthorization Act	of 1986) Lists			
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
88475-69-8	Beraprost (sodiur	n salt)	No	No	No	
CAS # Hazardous Components (Chemical Name)		ponents (Chemical Name)	Other US EPA or State Lists			
UA3 #		Beraprost (sodium salt)		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No		
88475-69-8	Beraprost (sodiur	n salt)		o; CWA NPDES:	No; TSCA: No; CA	
88475-69-8 Regulatory Info		n salt) This SDS was prepared in acc No.1272/2008.	PROP.65: No			
88475-69-8 Regulatory Info		This SDS was prepared in acc No.1272/2008.	PROP.65: No	1910.1200 and Re		
	ormation	This SDS was prepared in acc	PROP.65: No	1910.1200 and Re		
88475-69-8 Regulatory Info Statement: Revision Date:	ormation	This SDS was prepared in acc No.1272/2008. Section 16. Ot 08/07/2018	PROP.65: No	1910.1200 and Re		
88475-69-8 Regulatory Info Statement: Revision Date:	ormation	This SDS was prepared in acc No.1272/2008. Section 16. Ot	PROP.65: No	1910.1200 and Re		