

Revision: 07/09/2017

	acc	ording to Regulation (EC) No. 1907/2006 as amended by (	(EC) No. 1272/2008			
		Identification of the Substance/Mixture and of the				
1.1	Product Code:       22383         Product Name:       (±)-4-hydroxy Propranolol .betaD-Glucuronide         Synonyms:       4-[2-hydroxy-3-[(1-methylethyl)amino]propoxy]-1-naphthalenyl .betaD-glucopyranosiduronic acid;					
1.2	2 Relevant identified uses of the substance or mixture and uses advised against:					
	nary use.					
1.3	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			
1.4	Emergency telephone nur Emergency Contact:	nber: CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887			
		Section 2. Hazards Identifica	ation			
2.2	Acute Toxicity: Oral, Ca Label Elements: GHS Signal Word:	tegory 4 Warning				
	<ul> <li>GHS Hazard Phrases:</li> <li>H302: Harmful if swallowed.</li> <li>GHS Precaution Phrases:</li> <li>P264: Wash {hands} thoroughly after handling.</li> <li>GHS Response Phrases:</li> <li>P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.</li> <li>P330: Rinse mouth.</li> <li>GHS Storage and Disposal Phrases:</li> <li>Please refer to Section 7 for Storage and Section 13 for Disposal information.</li> </ul>					
2.3	Adverse Human Health Effects and Symptoms:	Harmful if swallowed. Material may be irritating to the mucous membrane May be harmful by inhalation or skin absorption. May cause eye, skin, or respiratory system irritation To the best of our knowledge, the toxicological pro	n.			

Multi-region format



Revision: 07/09/2017

L		Sect	tion 3. Composition	mormation		115		
CAS # / RTECS #		Hazardous Com REACH Registra	ponents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification		
94731-13-2 (±)-4-hydrox NA		(±)-4-hydroxy Propra	anolol .betaD-Glucuronide	100.0 %	NA NA	Acute Tox.(O) 4: H302		
			Section 4. Fi	rst Aid Meas	ures			
4.1	Descri	ption of First Aid						
	Measu	res:						
	In Case of Inhalation:		Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention. Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated					
In Case of Skin Contact:		e of Skin Contact:						
			clothing. Get medical attention if symptoms occur. Wash clothing before reuse.					
	In Case	e of Eye Contact:		Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined				
			and tested by medical person					
	in Case	e of Ingestion:	Wash out mouth with water p	•	•	ng unless directed to do so by		
			medical personnel.					
			Section 5. Fire	Fighting Me	asures			
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0.1	Media:		Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers.					
		able Extinguishing	A solid water stream may be	-				
	Media:	gg	<b>,</b>					
5.2	Flamm	able Properties an	dNo data available.					
	Hazard	s:						
			No data available.					
	Flash F		No data.					
	-	ive Limits:	LEL: No data.	UEL: No d	ata.			
	Autoig	nition Pt:	No data.					
5.3	Fire Fig	ghting Instructions	s: As in any fire, wear self-conta		-			
			equivalent), and full protectiv	e gear to prevent co	ontact with skin an	d eyes.		
			Section 6. Acciden	tal Release	Measures			
6.1	Protect	tive Precautions,	Avoid raising and breathing	dust, and provide a	dequate ventilatior	).		
	Protect	tive Equipment an				athing apparatus, or respirator,		
	Emerge	ency Procedures:	and appropriate personal pro	otection (rubber boo	ots, safety goggles	, and heavy rubber gloves).		
6.2		nmental	Take steps to avoid release	into the environmer	nt, if safe to do so.			
	Precau							
<b>6.3</b> Methods and Material For Contain spill and collect, as appropriate.				with least on the fi				
			ng Transfer to a chemical waste container for disposal in accordance with local regulations.					
	Up:							
			Section 7. Har	ndling and St	orage			
7.1	Precau	tions To Be Taken	Avoid breathing dust/fume/ga	as/mist/vapours/spr	ay.			
	in Hand	dling:	Avoid prolonged or repeated	exposure.				
7.2	Precau	tions To Be Taken	Neep container tightly closed					
	in Stor	ing:	Store in accordance with info	rmation listed on th	e product insert.			
						Multi-region format		



	Seclio	n 8. Exposure Controls/Personal Protection					
3.1	Exposure Parameters:						
8.2	Exposure Controls:						
8.2.1							
	(Ventilation etc.): le	vels below recommended exposure limits.					
3.2.2	Personal protection equipm	ent:					
	Eye Protection: Sa	afety glasses					
	Protective Gloves: C	ompatible chemical-resistant gloves					
	Other Protective Clothing:Lab coat						
	Respiratory Equipment N	IOSH approved respirator, as conditions warrant.					
	(Specify Type):						
	Work/Hygienic/Maintenan D	o not take internally.					
		acilities storing or utilizing this material should be equipped with an eyewash and a safety showe					
		ash thoroughly after handling.					
	Ν	o data available.					
	Sec	tion 9. Physical and Chemical Properties					
9.1	Information on Basic Physic	al 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 m	m No data.					
	Hg):						
	Vapor Density (vs. Air = 1):	No data.					
	Specific Gravity (Water = 1):	No data.					
	Solubility in Water:	No data.					
	Solubility Notes:	Soluble in: DMSO;					
	Octanol/Water Partition	No data.					
	Coefficient:						
	Autoignition Pt:	No data.					
	Decomposition Temperature	e: No data.					
	Viscosity:	No data.					
).2	Other Information						
	Percent Volatile:	No data.					
		t: C22H29NO9 451.5					

Multi-region format



Revision: 07/09/2017

Multi-region format

10.1	Reactivi	ty:	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	Conditio	ons To Avoid:	No data available.					
10.5	Incompa	atibility - Materials	strong oxidizing agents					
	To Avoid:							
10.6 Hazardo		ous	carbon dioxide					
	Decomp	osition or	carbon monoxide					
	Byprodu	ucts:	nitrogen oxides					
			Section 11. Toxicologi	cal Informa	ation			
11.1	Informa	tion on	The toxicological effects of this produ	ct have not beer	n thoroughly st	tudied.		
	Toxicol	ogical Effects:						
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
947	31-13-2	(±)-4-hydroxy Pro	pranolol .betaD-Glucuronide	n.a.	n.a.	n.a.	n.a.	
9473	31-13-2	(±)-4-hydroxy Pro	pranolol .betaD-Glucuronide			n.a.	_	
		1	pranolol .betaD-Glucuronide Section 12. Ecologic			n.a.	_	
12.1	31-13-2 Toxicity	1	pranolol .betaD-Glucuronide Section 12. Ecologic Avoid release into the environment.	al Informat	ion	n.a.	_	
12.1	Toxicity	:	pranolol .betaD-Glucuronide Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa	al Informat	ion	n.a.	_	
	Toxicity Persiste	: ence and	pranolol .betaD-Glucuronide Section 12. Ecologic Avoid release into the environment.	al Informat	ion	n.a.	_	
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ICAO/IATA	A Shipping Name:	Not dangerous goods.				
Additional Tra	insport	Transport in accordance with lo	ocal, state, and feder	al regulations.		
Information:						
		Section 15. Regu	latory Informa	ation		
EPA SARA (S	uperfund Amendme	nts and Reauthorization Act	of 1986) Lists			
CAS #	Hazardous Comp	onents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
94731-13-2	(±)-4-hydroxy Prop	ranolol .betaD-Glucuronide	No	No	No	
CAS #	Hazardous Components (Chemical Name)         Other US EPA or State Lists			State Lists	•	
94731-13-2	(±)-4-hydroxy Prop	ranolol .betaD-Glucuronide	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			

Statement: No.1272/2008.

Section 16. Other Information

Revision Date:

07/09/2017

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, 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.