

Revision: 04/22/2019 Supersedes Revision: 10/16/2017

	Section 1. Ide Product Code:	o Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830 entification of the Substance/Mixture and of th	and US OSHA HCS 2015					
	Product Code:	entification of the Substance/Mixture and of th	according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830 and US OSHA HCS 2015					
			e Company/Undertaking					
	Product Name:	21165 Metoprolol (tartrate)						
.2	Synonyms:	1-[4-(2-methoxyethyl)phenoxy]-3-[(1-methylethy 2R,3R-dihydroxybutanedioate; (±)-Metoprolol ta						
	Relevant identified uses of t Relevant identified uses:	he substance or mixture and uses advised aga For research use only, not for human or veterin						
.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 numb							
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887					
		Section 2. Hazards Identifica	ation					
.2	Label Elements:	, Category 3						
2.2		, Category 3						
2.2	Label Elements:	, Category 3 Warning						
2	Label Elements: GHS Signal Word: GHS Hazard Phrases:	Warning ng fertility or the unborn child.						
2.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H361: Suspected of damagi	Warning ng fertility or the unborn child.						
2.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H361: Suspected of damagi H412: Harmful to aquatic life GHS Precaution Phrases: P201: Obtain special instruct P202: Do not handle until al P273: Avoid release to the e	Warning ng fertility or the unborn child. e with long lasting effects. ctions before use. I safety precautions have been read and understor environment.	od.					
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Multi-region format

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	Adverse Human Health Effects and Symptoms:	Material may be irritating to t	ong lasting effects.						
CAS #	Effects and Symptoms:			Supersedes Revision: 10/16/2017 Harmful to aquatic life with long lasting effects.					
			Material may be irritating to the mucous membranes and upper respiratory tract.						
		May be harmful by inhalation	•	•					
		May cause eye, skin, or resp Suspected of damaging fertil							
			-		been thoroughly investigated.				
	Sou	ction 3. Composition	• ·	-					
	1	•			1				
		nponents (Chemical Name)/ ation No.	Concentration	EC No./ EC Index No.	GHS Classification				
56392- UB7450			100.0 %	260-148-9 NA	Toxic Repro. 2: H361 Aquatic (C) 3: H412 H335				
		Section 4. Fi	rst Aid Measu	ires					
4.1 I	Description of First Aid								
I	Measures:								
I	In Case of Inhalation:	Remove to fresh air. If not br Get immediate medical atten	0.0	respiration or giv	ve oxygen by trained personnel				
I	In Case of Skin Contact	: Immediately wash skin with s clothing. Get medical attentic			minutes. Remove contaminate				
	In Case of Eye Contact:	-		-	5 minutes. Have eyes examine				
	,	and tested by medical persor			,				
I	In Case of Ingestion:	ve anything by mouth to an							
	unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do s								
		medical personnel.							
		Section 5. Fire	Fighting Mea	sures					
	Suitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.								
	Media:	Use water spray to cool fire-	-						
	Unsuitable Extinguishing A solid water stream may be inefficient.								
	Media:								
	Flammable Properties a	i nd ino data avalladie.							
	Hazards:	No data available.							
	Flash Pt:	No data.							
	Explosive Limits:	LEL: No data.	UEL: No da	to					
		No data.	UEL. NO UA	la.					
	-	no uala.	ained breathing anno	ratua progoura d					
	Autoignition Pt:	ns: As in any fire, wear self-cont			amond (NIOSH approved or				



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	S	Section 6. Accidental Release Measures				
6.1 Protective Precautions, Avoid raising and breathing dust, 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		Avoid breathing dust/fume/gas/mist/vapours/spray.				
	in Handling: A	Avoid prolonged or repeated exposure.				
7.2	Precautions To Be Taken					
	in Storing:	Store in accordance with information listed on the product insert.				
	Sectio	on 8. Exposure Controls/Personal Protection				
8.1	Exposure Parameters:					
8.2	Exposure Controls:					
8.2.1	Engineering Controls	Jse process enclosures, local exhaust ventilation, or other engineering controls to control airborne				
	(Ventilation etc.):	evels below recommended exposure limits.				
8.2.2	Personal protection equipn	nent:				
	Eye Protection:	Safety glasses				
	Protective Gloves: Compatible chemical-resistant gloves					
	Other Protective Clothing:L	.ab coat				
	Respiratory Equipment	NOSH approved respirator, as conditions warrant.				
	(Specify Type):					
	Work/Hygienic/Maintenan	Do not take internally.				
		Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.				
		Vash thoroughly after handling.				
	Ν	No data available.				
	See	ction 9. Physical and Chemical Properties				
9.1	Information on Basic Physic	-				
	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. LEL: No data. UEL: No data.				
	Explosive Limits: Vapor Pressure (vs. Air or r					
	Hg):					
	пу): Vapor Density (vs. Air = 1):	No data.				
		Multi-region format				



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	Specific G	ravity (Water =	1): No data.						
	Solubility	in Water:	No data.						
	Solubility	Notes:	Soluble in: EtOH; MeOH; chloroforr	m; DMSO; v	water;				
	Octanol/W	ater Partition	No data.						
	Coefficien	t:							
	Autoignitio	on Pt:	No data.						
	-	ition Temperat	ure: No data.						
	Viscosity:	•	No data.						
9.2	Other Infor	mation							
5.2	Percent Vo		No data						
			No data.	0.4					
	Molecular	Formula & Weig	ght: C15H25NO3 • 1/2C4H6O6 34	2.4					
			Section 10. Stability and	Reactiv	/ity				
10.1	Reactivity	:	No data available.						
10.2	Stability:		Unstable [] Stable [X]						
10.3	Stability N	ote(s):	Stable if stored in accordance with informa	tion listed o	n the product	insert.			
	Polymeriza	ation:	Will occur [] Will not occur [X]						
10.4	Conditions	s To Avoid:	No data available.						
10.5			s strong oxidizing agents						
	To Avoid:	materials							
10.0			carbon dioxide						
10.6	Hazardous		carbon dioxide						
	Decompos								
	Byproduct	S:	nitrogen oxides						
			Section 11. Toxicological	Informa	ition				
11.1	Informatio	n on	The toxicological effects of this product have not been thoroughly studied.						
	Toxicologi	cal Effects:	Metoprolol - Toxicity Data: Oral TDLO (human): 160 mg/kg; Oral LD50 (rat): 5500 mg/kg;						
			Intraperitoneal LD50 (rat): 219 mg/kg; Subcutaneous LD50 (rat): 1150 mg/kg; Oral LD50 (mouse):						
			1500 mg/kg; Intraperitoneal LD50 (mouse): 202 mg/kg; Subcutaneous LD50 (mouse): 510 mg/kg;						
	Chronic To	oxicological	Metoprolol - Investigated as a drug and reproductive effector.						
	Effects:		Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.						
			See actual entry in RTECS for complete information.						
			Metoprolol RTECS Number: UB745000						
CAS	# F	lazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
		letoprolol tartrate		n.a.	n.a.	n.a.	n.a.		
				,					
L			Section 12. Ecological Ir	iormati	on				
12.1	Toxicity:		Avoid release into the environment.						
			Runoff from fire control or dilution water ma	ay cause po	ollution.				
12.2	Persistend	e and	No data available.						
	Degradabi	lity:							
12.3	Bioaccum	ulative	No data available.						
	Potential:								
12.4			No data available.						
12.5	-		No data available.						
2.5	assessme								
10.0			No doto ovoilable						
12.6	other adve	erse effects:	No data available.						
							lulti rogion formati		
1						N	Iulti-region format		



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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) 56392-17-7 Metoprolol tartrate No No No CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists 56392-17-7 Metoprolol tartrate CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA 56392-17-7 Metoprolol tartrate CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA 56392-17-7 Metoprolol tartrate CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA 8 PROP.65: No PROP.65: No Section 16. Other Information Section 16. Other Information Statement: 04/22/2019 Additional Information About No data available. This Product: No data available.	man					ersedes Revision: 10/16/201		
Section 14. Transport Information Section 14. Transport Information 14.1 LAND TRANSPORT (US DOT): DOT Proper Shipping Name: Not dangerous goods. DOT Hazard Class: UNIVA Number: 14.1 LAND TRANSPORT (European ADR/RID): ADR/RID Shipping Name: Not dangerous goods. UN Womme: Hazard Class: 14.1 LAND TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Not dangerous goods. Additional Transport in accordance with local, state, and federal regulations. Information 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) 56392-17-7 Metoprolol tartrate No No No CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) 56392-17-7 Metoprolol tartrate CAS # CAA HAP.ODC: No; CWA NPDES: No; TSCA: No; CA PROP.66: No Revisio			Section 13. Dispos	sal Considera	ations			
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Statement: No.1272/2008. Section 16. Other Information Revision Date: 04/22/2019 Additional Information About No data available. This Product: DISCLAIMER: This information is believed to be accurate and represents the best information is currently available to us. However, we make no warranty of merchantability or any other was express or implied, with respect to such information, and we assume no liability resulting fruse. Users should make their own investigations to determine the suitability of the information	92-17-7 N	Metoprolol tartrat	e	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
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