

Revision: 01/12/2019

Page: 1 of 5

	according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830 and US OSHA HCS 2015						
Section 1. Identification of the Substance/Mixture and of the Company/Undertaking							
.1	Product Code: Product Name:	26284 Atenolol					
	Synonyms:	4-[2-hydroxy-3-[(1-methylethyl)amino]propoxy]	-benzeneacetamide; Duraatenol; ICI 66082;				
.2	Relevant identified uses	of the substance or mixture and uses advised ag	ainst:				
	Relevant identified uses: For research use only, not for human or veterinary use.						
.3	Details of the Supplier of	-					
	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	umber:					
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300				
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
		Section 2. Hazards Identification	ation				
1	Classification of the Sub	stance or Mixture:					
	Acute Toxicity: Oral, Category 4						
	Serious Eye Damage/E	eye Irritation, Category 2					
	Carcinogenicity, Category 2						
	Toxic To Reproduction, Effects on or via lactation						
	Toxic To Reproduction	n, Effects on or via lactation					
.2	Label Elements:	n, Effects on or via lactation					
2	Label Elements:	h, Effects on or via lactation					
2	Label Elements: GHS Signal Word:	h, Effects on or via lactation					
2	Label Elements:	Warning					
2	Label Elements:	Warning ved.					
2	Label Elements: Constant of the second state of the second stat	Warning ved. ye irritation.					
2	Label Elements:	Warning ved. ye irritation. sing cancer.					
2	Label Elements: Constant of the second state of the second stat	Warning ved. ye irritation. sing cancer. to breast-fed children.					
2	Label Elements: Constraints GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallow H319: Causes serious e H351: Suspected of cau H362: May cause harm for GHS Precaution Phrases	Warning ved. ye irritation. sing cancer. to breast-fed children. es:					
2	Label Elements: Constant of the second seco	Warning ved. ye irritation. sing cancer. to breast-fed children. es: etructions before use.	od.				
2	Label Elements: Constant of the second seco	Warning ved. ye irritation. sing cancer. to breast-fed children. es:	od.				
2	Label Elements: Constant of the second seco	Warning ved. ye irritation. sing cancer. to breast-fed children. es: etructions before use. til all safety precautions have been read and understo	od.				
2	Label Elements: Constant of the second seco	Warning ved. ye irritation. sing cancer. to breast-fed children. es: atructions before use. til all safety precautions have been read and understoo ust/fume/gas/mist/vapors/spray}. ing pregnancy/while nursing.	od.				
2	Label Elements: Constant of the second seco	Warning ved. ye irritation. sing cancer. to breast-fed children. es: atructions before use. til all safety precautions have been read and understoo ust/fume/gas/mist/vapors/spray}. ing pregnancy/while nursing.					
2	Label Elements: Constant of the second seco	Warning ved. ye irritation. sing cancer. to breast-fed children. es: atructions before use. til all safety precautions have been read and understo ust/fume/gas/mist/vapors/spray}. ing pregnancy/while nursing. proughly after handling. gloves/protective clothing/eye protection/face protecti					
2	Label Elements: Constraints of the second s	Warning ved. ye irritation. sing cancer. to breast-fed children. es: etructions before use. til all safety precautions have been read and understor ust/fume/gas/mist/vapors/spray}. ing pregnancy/while nursing. proughly after handling. gloves/protective clothing/eye protection/face protection es: WED: Call a POISON CENTER or doctor/physician if	on}. you feel unwell.				
2	Label Elements: Constraints of the second s	Warning ved. ye irritation. sing cancer. to breast-fed children. es: atructions before use. til all safety precautions have been read and understor ust/fume/gas/mist/vapors/spray}. ing pregnancy/while nursing. proughly after handling. gloves/protective clothing/eye protection/face protectionses: es:	on}. you feel unwell.				
2	Label Elements: Constraints of the second s	Warning ved. ye irritation. sing cancer. to breast-fed children. es: atructions before use. til all safety precautions have been read and understor ust/fume/gas/mist/vapors/spray}. ing pregnancy/while nursing. broughly after handling. gloves/protective clothing/eye protection/face protection s: WED: Call a POISON CENTER or doctor/physician if YES: Rinse cautiously with water for several minutes.	on}. you feel unwell.				
2	Label Elements: Control of the second secon	Warning ved. ye irritation. sing cancer. to breast-fed children. es: etructions before use. til all safety precautions have been read and understor ust/fume/gas/mist/vapors/spray}. ing pregnancy/while nursing. proughly after handling. gloves/protective clothing/eye protection/face protection es: WED: Call a POISON CENTER or doctor/physician if	on}. you feel unwell.				

Multi-region format



Revision: 01/12/2019

			sal Phrases:					
	Please	e refer to Section 7	for Storage and Section 13 for Disposal information.					
2.3		e Human Health	Causes serious eye irritation. Harmful if swallowed. Material may be irritating to the mucous membranes and upper respiratory tract. May be harmful by inhalation or skin absorption.					
	Effects	and Symptoms:						
				-				
			May cause skin or respiratory system irritation. May cause harm to breast-fed children.					
			Suspected of causing cance					
			To the best of our knowledge	e, the toxicological p	properties have no	t been thoroughly investigated.		
		Sect	tion 3. Composition	/Information	on Ingredie	ents		
CAS		-	oonents (Chemical Name)/	Concentration	EC No./	GHS Classification		
RTE	CS #	REACH Registra	tion No.		EC Index No.			
	22-68-7 00000	Atenolol		100.0 %	249-451-7	Acute Tox.(O) 4: H302		
AC30	00000				NA	Eye Damage 2: H319 Carcinogen 2: H351		
						Toxic Lactate: H362		
			Section 4. Fi	ret Aid Meas				
4.1	Decorin	tion of First Aid		13t Alu Meas	ules			
+. 1	Measur							
		of Inhalation:						
			Remove to tresh air it not br	eathing give artificia	al respiration or di	ve oxvaen hy trained nersonnel		
			Get immediate medical atten		al respiration or gi	ve oxygen by trained personnel		
		of Skin Contact:	Get immediate medical atten	tion.				
			Get immediate medical atten	tion. soap and plenty of w	vater for at least 1	5 minutes. Remove contaminate		
	In Case		Get immediate medical atten Immediately wash skin with s clothing. Get medical attentio	tion. soap and plenty of w on if symptoms occu	vater for at least 1	5 minutes. Remove contaminate		
	In Case	of Skin Contact:	Get immediate medical atten Immediately wash skin with s clothing. Get medical attentio	tion. soap and plenty of w on if symptoms occu eyes with plenty of w	vater for at least 1	5 minutes. Remove contaminate before reuse.		
	In Case In Case	of Skin Contact:	Get immediate medical atten Immediately wash skin with s clothing. Get medical attention Hold eyelids apart and flush of	tion. soap and plenty of w on if symptoms occu eyes with plenty of w nnel.	vater for at least 1 r. Wash clothing b vater for at least 1	5 minutes. Remove contaminate before reuse. 5 minutes. Have eyes examined		
	In Case In Case	of Skin Contact: of Eye Contact:	Get immediate medical atten Immediately wash skin with s clothing. Get medical attention Hold eyelids apart and flush and tested by medical person Wash out mouth with water p	tion. soap and plenty of w on if symptoms occu eyes with plenty of w nnel. provided person is c	vater for at least 1 r. Wash clothing k vater for at least 1 onscious. Never g	5 minutes. Remove contaminate before reuse. 5 minutes. Have eyes examined		
	In Case In Case	of Skin Contact: of Eye Contact:	Get immediate medical atten Immediately wash skin with s clothing. Get medical attention Hold eyelids apart and flush and tested by medical person Wash out mouth with water p	tion. soap and plenty of w on if symptoms occu eyes with plenty of w nnel. provided person is c	vater for at least 1 r. Wash clothing k vater for at least 1 onscious. Never g	5 minutes. Remove contaminate before reuse. 5 minutes. Have eyes examined give anything by mouth to an		
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5.1	In Case In Case In Case	of Skin Contact: of Eye Contact:	Get immediate medical atten Immediately wash skin with s clothing. Get medical attention Hold eyelids apart and flush of and tested by medical person Wash out mouth with water p unconscious person. Get me medical personnel. Section 5. Fire	tion. soap and plenty of woon if symptoms occur eyes with plenty of woonnel. provided person is condical attention. Do Note the second	vater for at least 1 r. Wash clothing b water for at least 1 onscious. Never g NOT induce vomiti <b>ASUIRES</b> er, or dry chemica	5 minutes. Remove contaminate before reuse. 5 minutes. Have eyes examined live anything by mouth to an ing unless directed to do so by		
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5.1	In Case In Case In Case Suitable Media: Unsuita	of Skin Contact: of Eye Contact: of Ingestion: e Extinguishing	Get immediate medical atten Immediately wash skin with s clothing. Get medical attention Hold eyelids apart and flush of and tested by medical person Wash out mouth with water p unconscious person. Get me medical personnel. Section 5. Fire	tion. soap and plenty of woon if symptoms occur eyes with plenty of woon is contained by the source of woon and the symptoms occur provided person is contained by the source of the source of the source of the symptoms of t	vater for at least 1 r. Wash clothing b water for at least 1 onscious. Never g NOT induce vomiti <b>ASUIRES</b> er, or dry chemica	5 minutes. Remove contaminate before reuse. 5 minutes. Have eyes examined live anything by mouth to an ing unless directed to do so by		
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5.2	In Case In Case In Case Suitable Media: Unsuita Media: Flamma Hazards Flash P Explosi Autoign	e of Skin Contact: of Eye Contact: of Ingestion: e Extinguishing able Extinguishing able Properties an s: t: ve Limits: hition Pt:	Get immediate medical atten Immediately wash skin with s clothing. Get medical attention Hold eyelids apart and flush of and tested by medical person Wash out mouth with water p unconscious person. Get me medical personnel. <b>Section 5. Fire</b> Use alcohol-resistant foam, of Use water spray to cool fire-of A solid water stream may be dNo data available. No data available. No data. LEL: No data. No data.	tion. soap and plenty of woon if symptoms occur eyes with plenty of woon if symptoms occur eyes with plenty of woon is con- dical attention. Do None e Fighting Me carbon dioxide, wate exposed containers. inefficient. UEL: No do ained breathing app	vater for at least 11 r. Wash clothing b vater for at least 1 onscious. Never g NOT induce vomiti <b>asures</b> er, or dry chemica ata.	5 minutes. Remove contaminate before reuse. 5 minutes. Have eyes examined give anything by mouth to an ing unless directed to do so by I spray.		



Revision: 01/12/2019

		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,					
	<b>Emergency Procedures:</b> 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:	void 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.					
	Section	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 equipment:						
	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						
	ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower						
		Wash thoroughly after handling.					
	1	No data available.					
		ction 9. Physical and Chemical Properties					
9.1	-	cal 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 or )	nm No data.					
	Hg): Vapor Density (vs. Air = 1):	No data.					
	vapor Density (vs. All = 1):						
		Multi-region forma					



Page: 4 of 5

1	Specific	Gravity (Water =	1):	No data.					
	Solubilit	y in Water:		No data.					
	Solubilit	y Notes:		Soluble in: DMSO; EtOH; MeOH; v	water;				
	Octanol/	Water Partition		No data.					
	Coefficie	ent:							
	Autoigni	tion Pt:		No data.					
	Decomp	osition Temperat	ure:	No data.					
	Viscosit	y:		No data.					
9.2	Other Inf	ormation							
	Percent	Volatile:		No data.					
	Molecula	ar Formula & Wei	ght:	C14H22N2O3 266.3					
			S	Section 10. Stability and	Reactiv	vitv			
10.1	Reactivi	tv:		ta available.		- <b>J</b>			
10.2	Stability	-	Unstat	ble [ ] Stable [ X ]					
10.3	Stability		Stable [ ] Stable [ X] Stable if stored in accordance with information listed on the product insert.						
	Polymer	ization:		ccur [ ] Will not occur [ X ]					
10.4	Conditio	ons To Avoid:	No dat	ta available.					
10.5		tibility - Materials	s strona	oxidizing agents					
	To Avoid	-							
10.6	Hazardo	us	carbor	n dioxide					
	Decomp	osition or	carbor	n monoxide					
	Byprodu		nitroge	en oxides					
			Se	ection 11. Toxicological	Informa	ation			
11.1	Informat	ion on					Idied		
				The toxicological effects of this product have not been thoroughly studied. Atenolol - Toxicity Data: Oral TDLO (man): 10204 ug/kg; Oral TDLO (woman): 16 mg/kg; Oral					
	Toxicological Effects:		LD50 (rat): >2 gm/kg; Subcutaneous LD50 (rat): >600 mg/kg; Oral LD50 (mouse): 2 gm/kg;						
				taneous LD50 (mouse): >400 mg/kg		J. J,		3 . 3,	
	Chronic	Toxicological		ol - Investigated as a drug, mutager	-	ductive effecto	r.		
	Effects:	U	Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.						
			See actual entry in RTECS for complete information.						
			Atenol	ol RTECS Number: AC3600000					
Carcinogenicity:		<i>ı</i> :	NTP? No IARC Monographs? No OSHA Regulated? No						
CAS	#	Hazardous Com	ponent	s (Chemical Name)	NTP	IARC	ACGIH	OSHA	
2912	22-68-7	Atenolol			n.a.	n.a.	n.a.	n.a.	
		ļ	S	Section 12. Ecological li	nformati	ion			
12.1		<u> </u>		Section 12. Ecological In release into the environment.	nformat	ion			
12.1	Toxicity	<u>.</u>	Avoid I	release into the environment.					
12.1			Avoid I Runoff						
	Toxicity: Persiste	nce and	Avoid I Runoff	release into the environment. f from fire control or dilution water m					
12.2	Toxicity: Persiste Degrada	nce and bility:	Avoid Runoff No dat	release into the environment. f from fire control or dilution water m ta available.					
	Toxicity: Persiste	nce and bility: mulative	Avoid Runoff No dat	release into the environment. f from fire control or dilution water m					
12.2 12.3	Toxicity: Persiste Degrada Bioaccu Potentia	nce and bility: mulative I:	Avoid R Runoff No dat	release into the environment. f from fire control or dilution water m ta available. ta available.					
12.2 12.3 12.4	Toxicity: Persiste Degrada Bioaccu Potentia Mobility	nce and bility: mulative I: in Soil:	Avoid n Runoff No dat No dat	release into the environment. f from fire control or dilution water m ta available. ta available. ta available.					
12.2 12.3	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results	nce and bility: mulative I: in Soil: of PBT and vPvB	Avoid n Runoff No dat No dat	release into the environment. f from fire control or dilution water m ta available. ta available. ta available.					
12.2 12.3 12.4	Toxicity: Persiste Degrada Bioaccu Potentia Mobility	nce and bility: mulative I: in Soil: of PBT and vPvB	Avoid n Runoff No dat No dat	release into the environment. f from fire control or dilution water m ta available. ta available. ta available.					
12.2 12.3 12.4	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results	nce and bility: mulative I: in Soil: of PBT and vPvB	Avoid n Runoff No dat No dat	release into the environment. f from fire control or dilution water m ta available. ta available. ta available.					



Page: 5 of 5

CHIMICAL							
12.6 Other ad	lverse effects:	No data available.					
		Section 13. Dispos	al Considera	tions			
13.1 Waste D	isposal Method:	Dispose in accordance with loca	al, state, and federal	regulations.			
		Section 14. Trans	sport Informa	tion			
14.1 LAND T	RANSPORT (US	DOT):					
-	r Shipping Name	: Not dangerous goods.					
DOT Hazar UN/NA Nur							
	RANSPORT (Eur	onean ADR/RID).					
	hipping Name:	Not dangerous goods.					
UN Numbe		0 0					
Hazard Cla	ss:						
14.3 AIR TR	ANSPORT (ICAO/	IATA):					
	Shipping Name:	Not dangerous goods.					
Additional Trai	nsport	Transport in accordance with lo	cal, state, and federa	al regulations.			
Information:							
		Section 15. Regul	atory Informa	ition			
-	1	nents and Reauthorization Act of	-				
CAS #		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
29122-68-7	Atenolol		No	No	No		
CAS #		ponents (Chemical Name)	Other US EPA or State Lists   CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA   PROP.65: Yes: RDTox.				
29122-68-7	Atenolol						
Regulatory Info	ormation	This SDS was prepared in acco	rdance with 29 CFR	1910.1200 and Regu	ation (EC)		
Statement:		No.1272/2008.					
		Section 16. Oth	ner Informatio	n			
Revision Date:		01/12/2019					
Additional Info	rmation About	No data available.					
This Product:							
Company Polic	y or Disclaimer:	DISCLAIMER: This information		-			
		currently available to us. Howev express or implied, with respect					
		use. Users should make their o					
		their particular purposes.					

Multi-region format