

## SAFETY DATA SHEET Astemizole

Revision: 08/30/2018 Supersedes Revision: 02/22/2015

	CHEMICAI		Supersedes Revision: 02/22/2015				
	according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830 and US OSHA HCS 2015						
	Section 1. Id	entification of the Substance/Mixture and of the	he Company/Undertaking				
.1	Product Code:	16967					
	Product Name:	Astemizole					
	Synonyms:		phenyl)ethyl]-4-piperidinyl]-1H-benzimidazol-2-a				
		ne; NSC 329963;					
.2	Relevant identified uses of the substance or mixture and uses advised against:						
	<b>Relevant identified uses:</b> For research use only, not for human or veterinary 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 numb						
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300				
	Lineigeney contacti	CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
		Section 2. Hazards Identific	ation				
2.1	Classification of the Substa		allon				
2.2	Label Elements:						
	GHS Signal Word:	Warning					
	GHS Hazard Phrases:						
	H315: Causes skin irritation.						
	H319: Causes serious eye irritation.						
	H335: May cause respiratory irritation.						
	GHS Precaution Phrases:						
	P264: Wash {hands} thoroughly after handling.						
	P280: Wear {protective gloves/protective clothing/eye protection/face protection}.						
	P362+364: Take off contaminated clothing and wash it before reuse.						
	P261: Avoid breathing {dust/fume/gas/mist/vapours/spray}.						
	GHS Response Phrases:						
	P302+352: IF ON SKIN: Wash with plenty of soap and water. P332+313: If skin irritation occurs, get medical advice/attention.						
	P302+313. If skin initiation occurs, get medical advice/attention. P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy						
	to do. Continue rinsing.						
	P337+313: If eye irritation persists, get medical advice/attention.						
	P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.						
	P312: Call a {POISON CEN	TER/doctor/} if you feel unwell.					
	GHS Storage and Disposa	I Phrases:					
	Please refer to Section 7 for	Storage and Section 13 for Disposal information	).				

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	Advere	e Human Health				Supersedes Revision: 02/22/2015	
-		and Symptoms:	Causes serious eye irritation Causes skin irritation.				
	LIIGUIS	and oymptoms.	Material may be irritating to t	he mucous membrar	nes and upper res	spiratory tract.	
			May be harmful by inhalation			,,	
			May cause respiratory system	m irritation.			
			To the best of our knowledge	e, the toxicological pr	operties have not	t been thoroughly investigated.	
		Sect	tion 3. Composition	/Information of	on Ingredie	nts	
CAS # RTECS	-	Hazardous Com REACH Registra	ponents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification	
68844	-77-9	astemizole		100.0 %	272-441-9	Skin Corr. 2: H315	
DD8968	3000				NA	Eye Damage 2: H319	
						STOT (SE) 3: H335	
			Section 4. Fi	rst Aid Measu	ures		
	-	tion of First Aid					
	Measur		Pomovo to froch air. If not hr	oothing give ortificio	I readiration or ai	a avugan by trained personnal	
	in Case	of Inhalation:	Get immediate medical atten		r respiration or giv	ve oxygen by trained personnel.	
	In Case	of Skin Contact:			ater for at least 1F	minutes. Remove contaminate	
	in ouse	or okin oontaet.	clothing. Get medical attentio				
	In Case	of Eye Contact:	-		-		
		0yo oomuon	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.				
	In Case	of Ingestion:	Wash out mouth with water p		nscious. Never a	ive anything by mouth to an	
	unconscious person. Get medical			-	-		
			medical personnel.				
			Section 5. Fire	Fighting Mea	asures		
5.1	Suitable	e Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.				
	Media:		Use water spray to cool fire-exposed containers.				
		ble Extinguishing	g A solid water stream may be	inefficient.			
	Media:	his Drenartics on	Ma data availabla				
	Hazard	-	idNo data available.				
			No data available.				
	Flash P	t:	No data.				
		ve Limits:	LEL: No data.	UEL: No da	ata.		
	-	nition Pt:	No data.				
	-		s: As in any fire, wear self-cont	ained breathing appa	aratus pressure-d	emand (NIOSH approved or	
0.0	r no r ig	inting instruction.	equivalent), and full protectiv		-		
			equivalent, and fair protocili	e gear to provent ee			

Multi-region format



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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 respirato				
<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.				
<b>Containment and Cleaning</b> Transfer to a chemical waste container for disposal in accordance with local regulations.				
Up:				
Section 7. Handling and Storage				
<ul> <li>7.1 Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray.</li> <li>in Handling: Avoid prolonged or repeated exposure.</li> </ul>				
7.2 Precautions To Be Taken Keep container tightly closed.				
in Storing: Store in accordance with information listed on the product insert.				
Section 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 airbor				
(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				
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 show				
Wash thoroughly after handling.				
No data available.				
Section 9. Physical and Chemical Properties				
9.1 Information on Basic Physical 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 mm No data.				
Hg):				
Vapor Density (vs. Air = 1): No data.				
Multi-region for				

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	-	Gravity (Water =	-					
		y in Water:	No data.					
	Solubility Notes:		-	~0.25 mg/ml in a 1:3 solution of DMSO:PBS (pH 7.2); ~5 mg/ml in EtOH; ~20 mg/ml in				
	0		DMSO; ~10 mg/ml in DMF;					
		Water Partition	No data.					
	Coefficie							
	Autoigni		No data.					
	-	osition Temperat						
	Viscosit	y:	No data.					
9.2	Other Inf	ormation						
	Percent	Volatile:	No data.					
	Molecula	ar Formula & Wei	ght: C28H31FN4O 458.6					
			Section 10. Stability an	d Reactiv	vity			
10.1	Reactivit	ty:	No data available.					
10.2	Stability	:	Unstable [ ] Stable [ X ]					
10.3	Stability	Note(s):	Stable if stored in accordance with infor	mation listed c	on the product	insert.		
	Polymer	ization:	Will occur [ ] Will not occur [ X ]					
10.4	Conditio	ons To Avoid:	No data available.					
10.5	Incompa	tibility - Materials	s strong oxidizing agents					
	To Avoid	d:						
10.6	Hazardo	us	carbon oxides					
	Decomp	osition or	hydrogen fluoride					
	Byprodu		nitrogen oxides					
			Section 11. Toxicologica	al Informa	ation			
11.1	Informat	ion on	The toxicological effects of this product	have not been	thoroughly st	udied.		
			- · ·	emizole - Toxicity Data: Oral LD50 (rat): >2560 mg/kg; Oral TDLo (woman): 1200 µg/kg;				
	Toxicological Effects: Astemizole - Toxicity Data: Oral LD50 (rat): >2560 mg/kg; O Subcutaneous LD50 (rat): 355 mg/kg; Oral LD50 (mouse): 2		use): 2560 mg					
			(mouse): 1928 mg/kg;					
	Chronic	Toxicological	Astemizole - Investigated as a drug and	emizole - Investigated as a drug and reproductive effector. y select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.				
	Effects:		Only select Registry of Toxic Effects of					
			See actual entry in RTECS for complete	e information.				
			Astemizole RTECS Number: DD896800	00				
CAS	¥	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
6884	4-77-9	astemizole		n.a.	n.a.	n.a.	n.a.	
		·	Section 12. Ecological	Informati	on	•	·	
12.1	Toxicity:		Avoid release into the environment.					
			Runoff from fire control or dilution water	may cause po	ollution.			
12.2	Persiste	nce and	No data available.	data available.				
	Degrada	bility:						
12.3	Bioaccu	mulative	No data available.					
	Potentia							
12.4	Mobility		No data available.					
12.5	-		No data available.					
12.5			NO GALA AVAIIADIE.					
40.0	assessm							
12.6	Other ad	lverse effects:	No data available.					
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		Section 13. Dispos	al Considerat	ions		
3.1 Waste D	.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.					
		Section 14. Tran	sport Informat	tion		
14.1 LAND TRANSPORT (US DOT):						
DOT Prope	er Shipping Name	: Not dangerous goods.				
DOT Hazar	d Class:					
UN/NA Nur	nber:					
14.1 LAND 1	RANSPORT (Eur	opean ADR/RID):				
	hipping Name:	Not dangerous goods.				
UN Numbe						
Hazard Cla		7. • • • • •				
	ANSPORT (ICAO/ Shipping Name:	-				
Additional Tra		Transport in accordance with lo	cal state and federa	l regulations		
Information:	nsport		cal, state, and redera	regulations.		
		Section 15 Pegul	atory Informa	tion		
		Section 15. Regul	•	lion		
EPA SARA (Su CAS #		nents and Reauthorization Act	of 1986) Lists S. 302 (EHS)	S. 304 RQ	6 212 (TDI)	
68844-77-9	astemizole	ponents (Chemical Name)	No	<b>3. 304 RQ</b>	S. 313 (TRI)	
CAS # 68844-77-9	Hazardous Components (Chemical Name) astemizole		Other US EPA or State Lists CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA			
00044-77-9	asternizole		PROP.65: No			
Regulatory Info	u Drmation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)				
Statement:		No.1272/2008.				
		Section 16. Oth	ner Information	n		
Revision Date:		08/30/2018				
Additional Info	rmation About	No data available.				
This Product:						
Company Polic	y or Disclaimer:	DISCLAIMER: This information	is believed to be accu	urate 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.				