

Revision: 12/26/2017

	according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008						
	Section 1. Ide	entification of the Substance/Mixture and o	f the Company/Undertaking				
1.1	Product Code: 23777 Product Name: Fesoterodine (fumarate) Synonyms: 2-methyl-propanoic acid, 2-[(1R)-3-[bis(1-methylethyl)amino]-1-phenylpropyl]-4-(hydroxymethyl)phenyl ester, (2E)-2-butenedioate; SMP 8272; SPM 907;						
1.2	Relevant identified uses of t	he substance or mixture and uses advised	against:				
	Relevant identified uses:	For research use only, not for human or vet	terinary 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 numb	er:					
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887				
		Section 2. Hazards Identif	ication				
2.2	Serious Eye Damage/Eye I Toxic To Reproduction, Ca Aquatic Toxicity (Acute), C Label Elements:	ategory 2					
	GHS Signal Word:	Warning					
	GHS Hazard Phrases:						
	H302: Harmful if swallowed.						
	H319: Causes serious eye irritation. H361: Suspected of damaging fertility or the unborn child. H402: Harmful to aquatic life.						
	GHS Precaution Phrases:						
	P201: Obtain special instruc						
	P202: Do not handle until all safety precautions have been read and understood.						
	P264: Wash {hands} thoroughly after handling. P273: Avoid release to the environment.						
	P273: Avoid release to the environment. P280: Wear {protective gloves/protective clothing/eye protection/face protection}.						
	GHS Response Phrases:						
	•	D: Call a POISON CENTER or doctor/physiciar	n if you feel unwell.				
	P305+351+338: IF IN EYES	: Rinse cautiously with water for several minut	tes. Remove contact lenses, if present and easy				
	to do. Continue rinsing.						
	P308+313: IF exposed or co P330: Rinse mouth.	oncerned: Get medical attention/advice.					



	P337+3	15. Il eye initatio	n persists, get medical advice/a	attention.				
	GHS St	orage and Dispo	sal Phrases:					
Please refer to Section 7		refer to Section 7	for Storage and Section 13 for Disposal information.					
2.3	Adverse	Human Health	Causes serious eye irritation.					
	Effects a	ind Symptoms:	Harmful if swallowed.					
			Harmful to aquatic life.					
			 Material may be irritating to the mucous membranes and upper respiratory tract. May be harmful by inhalation or skin absorption. May cause skin or respiratory system irritation. Suspected of damaging fertility or the unborn child. To the best of our knowledge, the toxicological properties have not been thoroughly investigated. 					
		Sect	tion 3. Composition	/Information of	on Ingredie	nts		
CAS RTE(Hazardous Components (Chemical Name)/ REACH Registration No.		Concentration	EC No./ EC Index No.	GHS Classification		
2869	30-03-8 I	Propanoic acid,		100.0 %	639-689-3	Acute Tox.(O) 4: H302		
UA24		, .	[bis(1-methylethyl)amino]-1-phen		NA	Eye Damage 2A: H319		
	-		methyl)phenyl ester,			Toxic Repro. 2: H361		
		(2E)-2-butenedioate				Aquatic (A) 3: H402		
			Section 4. Fi	rst Aid Measu	ires			
1.1	Descript	ion of First Aid						
	Measure	s:						
	In Case of	of Inhalation:	Remove to fresh air. If not bre	eathing, give artificial	respiration or giv	e oxygen by trained personne		
	Get immediate medical att			tion.				
	In Case of Skin Contact: Immediately wash skin with			oap and plenty of wa	ater for at least 15	minutes. Remove contaminat		
	clothing. Get medical atten			n if symptoms occur.	. Wash clothing b	efore reuse.		
	•		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 Ingestio		of Ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.					
			medical personnel.					
			medical personnel. Section 5. Fire	Fighting Mea	asures			
5.1	Suitable	Extinguishing		<u> </u>				
5.1	Suitable Media:	Extinguishing	Section 5. Fire	carbon dioxide, water				
5.1	Media:		Section 5. Fire	carbon dioxide, water exposed containers.				
	Media: Unsuitab Media:	ble Extinguishing	Section 5. Fire Use alcohol-resistant foam, c Use water spray to cool fire-e	carbon dioxide, water exposed containers.				
	Media: Unsuitab Media:	ble Extinguishing	Section 5. Fire Use alcohol-resistant foam, c Use water spray to cool fire-e A solid water stream may be	carbon dioxide, water exposed containers.				
	Media: Unsuitab Media: Flammab	ble Extinguishing	Section 5. Fire Use alcohol-resistant foam, c Use water spray to cool fire-e A solid water stream may be	carbon dioxide, water exposed containers.				
	Media: Unsuitab Media: Flammab	ble Extinguishing ble Properties an	Section 5. Fire Use alcohol-resistant foam, o Use water spray to cool fire-e A solid water stream may be dNo data available.	carbon dioxide, water exposed containers.				
	Media: Unsuitab Media: Flammat Hazards: Flash Pt:	ble Extinguishing ble Properties an	Section 5. Fire Use alcohol-resistant foam, o Use water spray to cool fire-e A solid water stream may be adNo data available. No data available.	carbon dioxide, water exposed containers.	r, or dry chemical			
	Media: Unsuitab Media: Flammat Hazards: Flash Pt:	ole Extinguishing ole Properties an : : : : : :	Section 5. Fire Use alcohol-resistant foam, o Use water spray to cool fire-e A solid water stream may be dNo data available. No data available. No data.	carbon dioxide, water exposed containers. inefficient.	r, or dry chemical			
5.1	Media: Unsuitab Media: Flammab Hazards: Flash Pt: Explosiv Autoigni	ble Extinguishing ble Properties an : : : : : : : : : : : : : : : : : : :	Section 5. Fire Use alcohol-resistant foam, o Use water spray to cool fire-e A solid water stream may be adNo data available. No data available. No data. LEL: No data.	carbon dioxide, water exposed containers. inefficient. UEL: No da	r, or dry chemical	spray.		

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	C.	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.				
	•	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.			
		Avoid prolonged or repeated exposure.			
7.2		Keep container tightly closed.			
	in Storing:	Store in accordance with information listed on the product insert.			
	Secti	on 8. Exposure Controls/Personal Protection			
8.1	Exposure Parameters:				
8.2	Exposure Controls:				
8.2.1	Engineering Controls	g Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airbo			
	(Ventilation etc.): levels below recommended exposure limits.				
8.2.2	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.			
		Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.			
		Wash thoroughly after handling.			
		No data available.			
	Se	ction 9. Physical and Chemical Properties			
9.1	Information on Basic Physi	cal 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. LEL: No data. UEL: No data.			
	Explosive Limits:				
	Vapor Pressure (vs. Air or Hg):				
	Vapor Density (vs. Air = 1):	No data.			
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	Specific	Gravity (Water =	1): No data.							
	Solubility in Water: Solubility Notes: Octanol/Water Partition		No data.							
			Soluble (slightly) in: MeOH; water;							
			No data.							
	Coefficie		no data.							
			.							
	Autoign		No data.							
	-	osition Temperat								
	Viscosit	-	No data.							
9.2	Other Inf	ormation								
	Percent	Volatile:	No data.							
	Molecula	ar Formula & Wei	ght: C26H37NO3 • C4H4O4 527.7							
			Section 10. Stability and	Reactiv	/ity					
10.1	Reactivi	ty:	No data available.							
10.2	Stability	:	Unstable [] Stable [X]							
10.3										
	Polymer	ization:	Will occur [] Will not occur [X]							
10.4										
10.5										
10.5	To Avoid	-								
10.6	Hazardo		carbon dioxide							
10.0			carbon monoxide							
	-	osition or	nitrogen oxides							
	Byprodu									
			Section 11. Toxicological	Informa	ition					
11.1	Information on The toxicological effects of this product have not been thoroughly studied.									
	Toxicolo	gical Effects:	Fesoterodine (fumarate) - Toxicity Data: O	oterodine (fumarate) - Toxicity Data: Oral TDLO (human): 400 ug/kg;						
	Chronic	Toxicological	Fesoterodine (fumarate) - Investigated as a	oterodine (fumarate) - Investigated as a drug.						
			Only select Registry of Toxic Effects of Che	select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. actual entry in RTECS for complete information.						
			See actual entry in RTECS for complete in							
			Fesoterodine (fumarate) RTECS Number:	UA2466910)					
CAS # Hazardous Com		Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA			
2869	30-03-8	Propanoic acid,		n.a.	n.a.	n.a.	n.a.			
	2-methyl-,2-[(1R)-3-[bis(1		-3-[bis(1-methylethyl)amino]-1-phenylpropy							
			yl)phenyl ester, (2E)-2-butenedioate							
		•	Section 12. Ecological Ir	formati	on	•	•			
12.1	Toxicity	:	Avoid release into the environment.							
			Runoff from fire control or dilution water ma	ay cause po	ollution.					
12.2	Persiste	nce and	No data available.							
	Degrada	bility:								
12.3	-	mulative	No data available.							
	Potentia									
12.4	Mobility		No data available.							
	-									
12.5	Results assessm		No data available.							
12 6		lverse effects:	No data available.							
12.6	Uther ac	iverse effects:	ויט טמנא מימוומטוש.							
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		Section 13. Dispos	sal Considera	ations		
13.1 Waste E	Disposal Method:	Dispose in accordance with loca	al, state, and federa	I regulations.		
		Section 14. Trans	sport Informa	ation		
14.1 LAND 1	RANSPORT (US	DOT):				
DOT Prope DOT Hazaı UN/NA Nui		: Not dangerous goods.				
14.1 LAND 1	RANSPORT (Eur	opean ADR/RID):				
ADR/RID S UN Numbe Hazard Cla		Not dangerous goods.				
14.3 AIR TR	ANSPORT (ICAO/	IATA):				
ICAO/IATA	Shipping Name:	Not dangerous goods.				
Additional Tra Information:	nsport	Transport in accordance with lo	cal, state, and fede	ral regulations.		
		Section 15. Regul	latory Inform	ation		
EPA SARA (Su	perfund Amendn	nents and Reauthorization Act of	of 1986) Lists			
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
286930-03-8		-3-[bis(1-methylethyl)amino]-1-p ydroxymethyl)phenyl ester, ate	No	No	No	
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or State Lists			
		-3-[bis(1-methylethyl)amino]-1-p ydroxymethyl)phenyl ester, ate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Information Statement:		This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.				
		Section 16. Oth	ner Informati	on		
Revision Date:		12/26/2017				
Additional Information About This Product:		No data available.				
Company Policy or Disclaimer:		DISCLAIMER: This information currently available to us. Howev	ver, we make no wa	rranty of merchanta		

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