

Revision: 03/27/2017

.1	Section 1.	Identification of the Substance/Mixture and of th				
1			ie Company/Undertaking			
	Product Code:	21528				
	Product Name:	Retapamulin				
	Synonyms:	2-[[(3-exo)-8-methyl-8-azabicyclo[3.2.1]oct-3-yl				
	(3aS,4R,5S,6S,8R,9R,9aR,10R)-6-ethenyldecahydro-5-hydroxy-4,6,9,10-tetramethyl-1					
		-propano-3aH-cyclopentacycloocten-8-yl ester; Mutilin				
	14-(exo-8-methyl-8-azabicyclo[3.2.1]oct-3-ylsulfanyl)acetate; SB-275833;					
2	Relevant identified uses of the substance or mixture and uses advised against:					
	Relevant identified uses		hary use.			
3	Details of the Supplier of t	-				
	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 nur					
-	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300			
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		CHEMTREC Outside USA and Canada:	+1 (703)527-3887			
	Classification of the Subs Aquatic Toxicity (Chron Label Elements:	Section 2. Hazards Identification and the section and the sect				
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	Aquatic Toxicity (Chron Label Elements: GHS Signal Word:	Section 2. Hazards Identification and the section and the sect				
	Aquatic Toxicity (Chron Label Elements: GHS Signal Word: GHS Hazard Phrases:	Section 2. Hazards Identifica tance or Mixture: ic), Category 3 None				
	Aquatic Toxicity (Chron Label Elements: GHS Signal Word: GHS Hazard Phrases: H412: Harmful to aquatic	Section 2. Hazards Identificat tance or Mixture: ic), Category 3 None life with long lasting effects.				
	Aquatic Toxicity (Chron Label Elements: GHS Signal Word: GHS Hazard Phrases: H412: Harmful to aquatic GHS Precaution Phrase	Section 2. Hazards Identifica tance or Mixture: ic), Category 3 None life with long lasting effects.				
	Aquatic Toxicity (Chron Label Elements: GHS Signal Word: GHS Hazard Phrases: H412: Harmful to aquatic GHS Precaution Phrases P273: Avoid release to the	Section 2. Hazards Identification and the section 2. Hazards Identification and the sector of Mixture: ic), Category 3 None life with long lasting effects. s: e environment.				
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2	Aquatic Toxicity (Chron Label Elements: GHS Signal Word: GHS Hazard Phrases: H412: Harmful to aquatic GHS Precaution Phrases P273: Avoid release to the GHS Response Phrases No phrases apply. GHS Storage and Dispo Please refer to Section 7 to	Section 2. Hazards Identification tance or Mixture: ic), Category 3 None life with long lasting effects. s: e environment. : sal Phrases: for Storage and Section 13 for Disposal information. Harmful to aquatic life with long lasting effects. Material may be irritating to the mucous membrane	ation es and upper respiratory tract.			
1 2 3	Aquatic Toxicity (Chron Label Elements: GHS Signal Word: GHS Hazard Phrases: H412: Harmful to aquatic GHS Precaution Phrases P273: Avoid release to the GHS Response Phrases No phrases apply. GHS Storage and Dispo Please refer to Section 7 to Adverse Human Health	Section 2. Hazards Identification tance or Mixture: ic), Category 3 None life with long lasting effects. s: e environment. : sal Phrases: for Storage and Section 13 for Disposal information. Harmful to aquatic life with long lasting effects.	ation es and upper respiratory tract. sorption.			

Multi-region format



SAFETY DATA SHEET Retapamulin

Revision: 03/27/2017

RTE		Hazardous Components (Chemical Name)/ REACH Registration No.		Concentration	EC No./	GHS Classification	
		tapamulin	tion No.	100.0 %	EC Index No.	Aquatic (C) 3: H412	
AI8976800					NA		
			Section 4. Fi	rst Aid Meas	ures		
4.1	Description	n of First Aid					
	Measures:						
	In Case of Inhalation:		Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel Get immediate medical attention.				
	In Case of	Skin Contact:	Immediately wash skin with s clothing. Get medical attention			5 minutes. Remove contaminate	
	In Case of	Eye Contact:	-		-	5 minutes. Have eyes examine	
	in case of	Lye Contact.	and tested by medical persor			o minutes. Have eyes examine	
	In Case of	Ingestion:	Wash out mouth with water p		onscious. Never g	ive anything by mouth to an	
		U	unconscious person. Get me	dical attention. Do N	NOT induce vomiti	ng unless directed to do so by	
			medical personnel.				
			Section 5. Fire	Fighting Me	asures		
5.1	Suitable Ex	xtinguishing	Use alcohol-resistant foam, o	carbon dioxide, wate	er, or dry chemica	l spray.	
	Media:		Use water spray to cool fire-	exposed containers			
	Unsuitable	Extinguishing	A solid water stream may be	inefficient.			
	Media:						
5.2	Flammable Hazards:	Properties and	d No data available.				
			No data available.				
	Flash Pt:		No data.				
	Explosive		LEL: No data.	UEL: No d	lata.		
	Autoignitic		No data.				
5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSF							
			equivalent), and full protectiv	e gear to prevent c	ontact with skin ar	nd eyes.	
			Section 6. Accider	tal Release	Measures		
6.1		Precautions,	Avoid raising and breathing	•	•		
						eathing apparatus, or respirator	
		y Procedures:	and appropriate personal pr				
	Environme		Take steps to avoid release	into the environmer	nt, if safe to do so.		
6.2	Precaution		Contain chill and callect an	appropriato			
6.2	Methods a	nd Material For	Contain spill and collect, as n Transfer to a chemical wast		osal in accordance	e with local regulations	
6.2	Methods a	nd Material For	[.] Contain spill and collect, as g Transfer to a chemical waste		osal in accordance	with local regulations.	
6.2	Methods a Containme	nd Material For	gTransfer to a chemical wast	e container for dispo		e with local regulations.	
6.2 6.3	Methods a Containme Up:	nd Material For ent and Cleanin	gTransfer to a chemical waste Section 7. Har	e container for dispond	torage	e with local regulations.	
6.2 6.3	Methods a Containme Up: Precaution	nd Material For ent and Cleanin s To Be Taken	gTransfer to a chemical waste Section 7. Har Avoid breathing dust/fume/ga	e container for disponding and Stass/mist/vapours/spr	torage	e with local regulations.	
6.2 6.3 7.1	Methods a Containme Up: Precaution in Handling	nd Material For ent and Cleanin s To Be Taken g:	gTransfer to a chemical waste Section 7. Har Avoid breathing dust/fume/ga Avoid prolonged or repeated	e container for dispondent of the second sec	torage	e with local regulations.	
6.2	Methods a Containme Up: Precaution in Handling	nd Material For ent and Cleanin is To Be Taken g: is To Be Taken	gTransfer to a chemical waste Section 7. Har Avoid breathing dust/fume/ga	a container for disponding and St as/mist/vapours/spr exposure.	torage ^{ay.}	e with local regulations.	



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	Secti	on 8. Exposure Controls/Personal Protection			
3.1	Exposure Parameters:				
3.2	Exposure Controls:				
8.2.1	Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborr			
	(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.			
	Se	ection 9. Physical and Chemical Properties			
9 .1		ical and Chemical Properties			
	Physical States:	[]Gas []Liquid [X]Solid			
	Appearance and Odor:	A powder			
	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.			
	Specific Gravity (Water = 1	I): No data.			
	Solubility in Water:	No data.			
	Octanol/Water Partition	No data.			
	Coefficient:				
	Autoignition Pt:	No data.			
	Decomposition Temperatu	ire: No data.			
	Viscosity:	No data.			
9.2	Other Information				
	Percent Volatile:	No data.			



Multi-region format

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			Section 10. Stability	and Reactive	vity				
10.1	Reactivi	ty:	No data available.						
10.2	D.2 Stability: Unstable [] Stable [X]								
10.3	Stability	Note(s):	Stable if stored in accordance with information listed on the product insert.						
	Polyme	rization:	Will occur [] Will not occur [X]						
10.4	4 Conditions To Avoid: No data available.								
10.5 Incompatibility - Materials No data available.									
	To Avoi	d:							
10.6	Hazardo		No data available.						
	-	osition or							
	Byprodu	ucts:							
			Section 11. Toxicolog	jical Informa	ation				
11.1	Informa	tion on	The toxicological effects of this proc	luct have not beer	n thoroughly st	udied.			
	Toxicol	ogical Effects:							
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
2244	E2 66 9				no	n.a.	n.a.		
	52-00-0	Retapamulin		n.a.	n.a.	11.0.			
	52-00-0	Retapamulin	Section 12. Ecologic						
12.1	Toxicity	ļ	Section 12. Ecologic Avoid release into the environment.	cal Informat		1			
12.1		ļ		cal Informat	ion				
12.1	Toxicity	ļ	Avoid release into the environment.	cal Informat	ion				
	Toxicity	: ence and	Avoid release into the environment. Runoff from fire control or dilution w	cal Informat	ion				
	Toxicity Persiste Degrada	: ence and	Avoid release into the environment. Runoff from fire control or dilution w	cal Informat	ion				
12.2	Toxicity Persiste Degrada	: ence and ability: mulative	Avoid release into the environment. Runoff from fire control or dilution w No data available.	cal Informat	ion				
12.2	Toxicity Persiste Degrada Bioaccu	: ence and ability: mulative II:	Avoid release into the environment. Runoff from fire control or dilution w No data available.	cal Informat	ion				
12.2 12.3	Toxicity Persiste Degrada Bioaccu Potentia Mobility	: ince and ability: imulative il: in Soil:	Avoid release into the environment. Runoff from fire control or dilution w No data available. No data available.	cal Informat	ion				
12.2 12.3 12.4	Toxicity Persiste Degrada Bioaccu Potentia Mobility	: ence and ability: imulative il: in Soil: of PBT and vPvB	Avoid release into the environment. Runoff from fire control or dilution w No data available. No data available. No data available.	cal Informat	ion				
12.2 12.3 12.4	Toxicity Persiste Degrada Bioaccu Potentia Mobility Results assessm	: ence and ability: imulative il: in Soil: of PBT and vPvB	Avoid release into the environment. Runoff from fire control or dilution w No data available. No data available. No data available.	cal Informat	ion				
12.2 12.3 12.4 12.5	Toxicity Persiste Degrada Bioaccu Potentia Mobility Results assessm	: nce and ability: mulative al: in Soil: of PBT and vPvB nent:	Avoid release into the environment. Runoff from fire control or dilution w No data available. No data available. No data available. No data available.	cal Informat	ion ollution.				
12.2 12.3 12.4 12.5	Toxicity Persiste Degrada Bioaccu Potentia Mobility Results assess Other ad	: nce and ability: mulative al: in Soil: of PBT and vPvB nent:	Avoid release into the environment. Runoff from fire control or dilution w No data available. No data available. No data available. No data available. No data available.	cal Informat	ion ollution.				
12.2 12.3 12.4 12.5 12.6	Toxicity Persiste Degrada Bioaccu Potentia Mobility Results assess Other ad	: ence and ability: imulative al: in Soil: of PBT and vPvB nent: dverse effects:	Avoid release into the environment. Runoff from fire control or dilution w No data available. No data available. No data available. No data available. No data available. Section 13. Disposal	cal Informat	ion ollution. ions egulations.				
12.2 12.3 12.4 12.5 12.6	Toxicity Persiste Degrada Bioaccu Potentia Mobility Results assess Other ac	: ence and ability: imulative al: in Soil: of PBT and vPvB nent: dverse effects:	Avoid release into the environment. Runoff from fire control or dilution w No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Dispose in accordance with local, s Section 14. Transp	cal Informat	ion ollution. ions egulations.				
12.2 12.3 12.4 12.5 12.6 13.1 14.1	Toxicity Persiste Degrada Bioaccu Potentia Mobility Results assess Other ac Waste D	: ence and ability: mulative al: in Soil: of PBT and vPvB nent: dverse effects:	Avoid release into the environment. Runoff from fire control or dilution w No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Dispose in accordance with local, st Section 14. Transp	cal Informat	ion ollution. ions egulations.				
12.2 12.3 12.4 12.5 12.6 13.1 14.1 D	Toxicity Persiste Degrada Bioaccu Potentia Mobility Results assess Other ac Waste D	: ence and ability: imulative al: in Soil: of PBT and vPvB nent: dverse effects: Disposal Method: RANSPORT (US I	Avoid release into the environment. Runoff from fire control or dilution w No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Dispose in accordance with local, st Section 14. Transp	cal Informat	ion ollution. ions egulations.				
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12.2 12.3 12.4 12.5 12.6 13.1 14.1 D	Toxicity Persiste Degrada Bioaccu Potentia Mobility Results assess Other ac Waste D LAND T POT Prope	ence and ability: imulative al: in Soil: of PBT and vPvB nent: dverse effects: Disposal Method: RANSPORT (US I or Shipping Name: d Class:	Avoid release into the environment. Runoff from fire control or dilution w No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Dispose in accordance with local, si Section 14. Transp Dot): Not dangerous goods.	cal Informat	ion ollution. ions egulations.				
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Саитап
CHEMICAL

14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: N

me: Not dangerous goods.

Additional Transport Information:

Section 15. Regulatory Information

Transport in accordance with local, state, and federal regulations.

CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
224452-66-8	Retapamulin		No	No	No	
CAS #	Hazardous Components (Chemical Name)		Other US EPA o	r State Lists	•	
224452-66-8	Retapamulin		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. Of	ther Information	on		
Revision Date:		03/27/2017				
Additional Info	rmation 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.				