

	400010	ding to Regulation (EC) No. 1907/2006 as amended by (I	EC) No. 1272/2008					
	Section 1. Ide	entification of the Substance/Mixture and of th	e Company/Undertaking					
1.1	Product Code:	17089						
	Product Name:	Tildipirosin						
	Synonyms:	20-deoxo-23-deoxy-5-O-[3,6-dideoxy-3-(dimeth	ylamino)betaD-glucopyranosyl]-20,23-di-1-p					
	eridinyl-tylonolide;							
1.2	Relevant identified uses of the substance or mixture and uses advised against:							
	Relevant identified uses: For research use only, not for human or veterinary use.							
1.3	Details of the Supplier of the	e 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:	+1 (800)424-9300					
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887					
		Section 2. Hazards Identifica	ation					
2.2	Toxic To Reproduction, Ca Specific Target Organ Tox Label Elements:	ory 1 ategory 2 ricity (repeated exposure), Category 2						
	Specific Target Organ Tox Label Elements:	ategory 2						
	Specific Target Organ Tox Label Elements: Labeling according to Regu	ategory 2 kicity (repeated exposure), Category 2 Ilation (EC) No 1272/2008 [CLP]:						
	Specific Target Organ Tox Label Elements: Labeling according to Regu OFF Signal Word:	ategory 2 cicity (repeated exposure), Category 2						
	Specific Target Organ Tox Label Elements: Labeling according to Regu Official Contents GHS Signal Word: GHS Hazard Phrases:	ategory 2 kicity (repeated exposure), Category 2 Ilation (EC) No 1272/2008 [CLP]: Warning						
	Specific Target Organ Tox Label Elements: Labeling according to Regu Official Content GHS Signal Word: GHS Hazard Phrases: H317: May cause an allergin	ategory 2 kicity (repeated exposure), Category 2 Ilation (EC) No 1272/2008 [CLP]: Warning						
	Specific Target Organ Tox Label Elements: Labeling according to Regu Official Content GHS Signal Word: GHS Hazard Phrases: H317: May cause an allergin H361: Suspected of damagi	ategory 2 kicity (repeated exposure), Category 2 Ilation (EC) No 1272/2008 [CLP]: Warning						
	Specific Target Organ Tox Label Elements: Labeling according to Regu Official Content GHS Signal Word: GHS Hazard Phrases: H317: May cause an allergin H361: Suspected of damagi	ategory 2 kicity (repeated exposure), Category 2 ulation (EC) No 1272/2008 [CLP]: Warning c skin reaction. ng fertility or the unborn child.						
	Specific Target Organ Tox Label Elements: Labeling according to Regu Official Content GHS Signal Word: GHS Hazard Phrases: H317: May cause an allergin H361: Suspected of damagi H373: May cause damage to	ategory 2 sicity (repeated exposure), Category 2 alation (EC) No 1272/2008 [CLP]: Warning c skin reaction. ng fertility or the unborn child. o organs through prolonged or repeated exposure.						
	Specific Target Organ Tox Label Elements: Labeling according to Regu GHS Signal Word: GHS Hazard Phrases: H317: May cause an allerging H361: Suspected of damagi H373: May cause damage to GHS Precaution Phrases: P201: Obtain special instruct	ategory 2 sicity (repeated exposure), Category 2 alation (EC) No 1272/2008 [CLP]: Warning c skin reaction. ng fertility or the unborn child. o organs through prolonged or repeated exposure.						
	Specific Target Organ Tox Label Elements: Labeling according to Regu Construction GHS Signal Word: GHS Hazard Phrases: H317: May cause an allergin H361: Suspected of damage H373: May cause damage to GHS Precaution Phrases: P201: Obtain special instruction P202: Do not handle until all	ategory 2 sticity (repeated exposure), Category 2 station (EC) No 1272/2008 [CLP]: Warning c skin reaction. ng fertility or the unborn child. o organs through prolonged or repeated exposure stions before use.						
	Specific Target Organ Tox Label Elements: Labeling according to Regu GHS Signal Word: GHS Hazard Phrases: H317: May cause an allergid H361: Suspected of damagi H373: May cause damage to GHS Precaution Phrases: P201: Obtain special instruct P202: Do not handle until all P260: Do not breathe {dust/	Ategory 2 Atecity (repeated exposure), Category 2 Allation (EC) No 1272/2008 [CLP]: Warning C skin reaction. ng fertility or the unborn child. to organs through prolonged or repeated exposure etions before use. I safety precautions have been read and understoo	od.					
	Specific Target Organ Tox Label Elements: Labeling according to Regu Construction GHS Signal Word: GHS Hazard Phrases: H317: May cause an allergin H361: Suspected of damagi H373: May cause damage to GHS Precaution Phrases: P201: Obtain special instruct P202: Do not handle until al P260: Do not breathe {dust/ P272: Contaminated work of	Ategory 2 Aticity (repeated exposure), Category 2 Allation (EC) No 1272/2008 [CLP]: Warning C skin reaction. Ing fertility or the unborn child. Ing fertility or the unborn child. Ing organs through prolonged or repeated exposure extions before use. I safety precautions have been read and understoor fume/gas/mist/vapors/spray}.	od.					
	Specific Target Organ Tox Label Elements: Labeling according to Regu Construction GHS Signal Word: GHS Hazard Phrases: H317: May cause an allergin H361: Suspected of damagi H373: May cause damage to GHS Precaution Phrases: P201: Obtain special instruct P202: Do not handle until al P260: Do not breathe {dust/ P272: Contaminated work of	Ategory 2 Aticity (repeated exposure), Category 2 Ilation (EC) No 1272/2008 [CLP]: Warning C skin reaction. ng fertility or the unborn child. o organs through prolonged or repeated exposure Stions before use. I safety precautions have been read and understoor fume/gas/mist/vapors/spray}. Iothing should not be allowed out of the workplace	od.					
	Specific Target Organ Tox Label Elements: Labeling according to Regu GHS Signal Word: GHS Hazard Phrases: H317: May cause an allergid H361: Suspected of damagi H373: May cause damage to GHS Precaution Phrases: P201: Obtain special instruct P202: Do not handle until al P260: Do not breathe {dust/ P272: Contaminated work of P280: Wear {protective glov GHS Response Phrases:	Ategory 2 Aticity (repeated exposure), Category 2 Ilation (EC) No 1272/2008 [CLP]: Warning C skin reaction. ng fertility or the unborn child. o organs through prolonged or repeated exposure Stions before use. I safety precautions have been read and understoor fume/gas/mist/vapors/spray}. Iothing should not be allowed out of the workplace	od.					
2.2 2.2.1	Specific Target Organ Tox Label Elements: Labeling according to Regu Construction GHS Signal Word: GHS Hazard Phrases: H317: May cause an allergid H361: Suspected of damagi H373: May cause damage to GHS Precaution Phrases: P201: Obtain special instruct P202: Do not handle until al P260: Do not breathe {dust/ P272: Contaminated work of P280: Wear {protective glow GHS Response Phrases: P302+352: IF ON SKIN: Wat P308+313: IF exposed or construction	Ategory 2 Aticity (repeated exposure), Category 2 Allation (EC) No 1272/2008 [CLP]: Warning C skin reaction. Ing fertility or the unborn child. I o organs through prolonged or repeated exposure of organs through prolonged or repeated exposure of une/gas/mist/vapors/spray}. I othing should not be allowed out of the workplace res/protective clothing/eye protection/face protection ash with plenty of soap and water. Discorred: Get medical attention/advice.	od.					
	Specific Target Organ Tox Label Elements: Labeling according to Regu Construction GHS Signal Word: GHS Hazard Phrases: H317: May cause an allergin H361: Suspected of damagi H373: May cause damage to GHS Precaution Phrases: P201: Obtain special instruction P202: Do not handle until al P260: Do not breathe {dust/ P272: Contaminated work of P280: Wear {protective glow GHS Response Phrases: P302+352: IF ON SKIN: Wa P308+313: IF exposed or con P314: Get medical attention	Ategory 2 Aticity (repeated exposure), Category 2 Ilation (EC) No 1272/2008 [CLP]: Warning C skin reaction. ng fertility or the unborn child. o organs through prolonged or repeated exposure. Ations before use. I safety precautions have been read and understoor fume/gas/mist/vapors/spray}. Iothing should not be allowed out of the workplace res/protective clothing/eye protection/face protection fash with plenty of soap and water. oncerned: Get medical attention/advice. /advice if you feel unwell.	od.					
	Specific Target Organ Tox Label Elements: Labeling according to Regu Construction GHS Signal Word: GHS Hazard Phrases: H317: May cause an allergin H361: Suspected of damagi H373: May cause damage to GHS Precaution Phrases: P201: Obtain special instruction P202: Do not handle until al P260: Do not breathe {dust/ P272: Contaminated work of P280: Wear {protective glow GHS Response Phrases: P302+352: IF ON SKIN: Wa P308+313: IF exposed or con P314: Get medical attention	Ategory 2 Aticity (repeated exposure), Category 2 Allation (EC) No 1272/2008 [CLP]: Warning C skin reaction. Ing fertility or the unborn child. I o organs through prolonged or repeated exposure of organs through prolonged or repeated exposure of une/gas/mist/vapors/spray}. I othing should not be allowed out of the workplace res/protective clothing/eye protection/face protection ash with plenty of soap and water. Discorred: Get medical attention/advice.	od.					



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Cay	man					Revision: 03/20/2015		
	CHIMICAL	-364: Take off conta	aminated clothing and wash it t	pefore reuse.				
		Storage and Dispo	-					
			for Storage and Section 13 for	Disposal information).			
2.3		e Human Health	Material may be irritating to the	-		piratory tract.		
	Effects	and Symptoms:	May be harmful by inhalation					
			May cause an allergic skin re	action.				
			May cause eye, skin, or resp	iratory system irritatio	on.			
			May cause damage to organs through prolonged or repeated exposure.					
			Suspected of damaging fertili	•				
			To the best of our knowledge	, the toxicological pro	operties have not	been thoroughly investigated.		
		Sec	tion 3. Composition	Information o	on Ingredie	nts		
CAS RTEC		Hazardous Com REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification		
3288	98-40-4	Tildipirosin		100.0 %	NA	Skin Sens. 1: H317		
NA					NA	Toxic Repro. 2: H361		
						STOT (RE) 2: H373		
			Section 4. Fi	rst Aid Measu	ires			
4.1	Descri	otion of First Aid	No data available.					
	Measu	res:						
	In Case	e of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel.					
			Get immediate medical attention.					
	In Case	e of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated					
			clothing. Get medical attention if symptoms occur. Wash clothing before reuse.					
	In Case	e of Eye Contact:	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	e of Ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an					
			·	dical attention. Do NO	DT induce vomitir	ng unless directed to do so by		
			medical personnel.					
			Section 5. Fire	Fighting Mea	Isures			
5.1		e Extinguishing	Use alcohol-resistant foam, c		, or dry chemical	spray.		
	Media:		Use water spray to cool fire-exposed containers.					
		• •	A solid water stream may be	inefficient.				
	Media:							
5.2		-	d No data available.					
	Hazard							
	Flash F		No data.		1-			
	-	ive Limits:	LEL: No data.	UEL: No da	la.			
	Autoignition Pt: No data. Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or							
5.3	Fire Fig	ghting instructions						
			equivalent), and full protective	e gear to prevent cor	RAGE WILL SKILL AL	u cyco .		
I								



	Section 6. Accidental Release Measures								
6.1	Protecti	ve Precautions,	Avoid raising and bre	eathing dust, and provide adeq	uate ventilation.				
	Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,								
	Emerge	ncy Procedures:	and appropriate pers	onal protection (rubber boots,	safety goggles, and heavy ru	ubber gloves).			
6.2	Environ	mental	Take steps to avoid r	release into the environment, if safe to do so.					
	Precautions:								
6.3			r Contain spill and colle						
		ment and Cleanin	gTransfer to a chemica	al waste container for disposal	in accordance with local reg	julations.			
	Up:								
			Section 7.	Handling and Stor	age				
7.1	Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray.								
	in Handling: Avoid prolonged or repeated exposure.								
7.2	Precaut	ions To Be Taken	Keep container tightly	v closed.					
	in Stori	ng:	Store in accordance v	with information listed on the p	roduct insert.				
		Sec	tion 8. Exposu	re Controls/Persona	al Protection				
8.1	Exposur	e Parameters:							
CAS	#	Partial Chemical	Name	Britain EH40	France VL	Europe			
3288	98-40-4	Tildipirosin		No data.	No data.	No data.			
CAS	#	Partial Chemical	Name	OSHA TWA	ACGIH TWA	Other Limits			
3288	98-40-4	Tildipirosin		No data.	No data.	No data.			
8.2	Exposu	e Controls:			Į	Į			
8.2.1	Enginee	ering Controls	Use process enclosur	res, local exhaust ventilation, c	or other engineering controls	to control airborne			
	(Ventila	tion etc.):	levels below recomme	nended exposure limits.					
8.2.2	Persona	al protection equi	ment:						
	Eye Pro	tection:	Safety glasses						
	Protecti	ve Gloves:	Compatible chemical-resistant gloves						
	Other P	rotective Clothing	g:Lab coat						
	Respira	tory Equipment	NIOSH approved respirator, as conditions warrant.						
	(Specify	/ Туре):							
	-	-	Do not take internally.						
	ce Prac	tices:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.						
			Wash thoroughly after handling.						
			No data available.						



		Se	ectior	n 9. Physical an	nd Cher	nical Pr	roperties		
9.1	Informat	ion on Basic Phys	sical an	d Chemical Properties					
	Physica	l States:		[]Gas []Liquid	[X] Sol	id			
	Appeara	nce and Odor:		A white solid					
	Melting	Point:		No data.					
	Boiling Point:			No data.					
	Flash Pt	:		No data.					
	Evaporation Rate:			No data.					
	Explosiv	Explosive Limits: /apor Pressure (vs. Air or mm		LEL: No data. UEL: No data. No data.					
	-								
	Hg): Vapor Density (vs. Air = 1):								
			No data.						
	-	Gravity (Water =	-	No data.					
	-	y in Water:		No data.					
		y Notes:		Soluble in: EtOH, MeOH	H, DMSO, 8	MF;			
	Autoign	-		No data.		,			
9.2	-	ormation							
5.2		Volatile:		No data.					
		ar Formula & Weig	aht						
	Molecul		-			Deesti			
				ection 10. Stabi	iity and	Reactiv	vity		
10.1	Reactivi	-		a available.					
10.2	Stability			ole [] Stable [X]					
10.3	-	Note(s):		if stored in accordance v		ation listed o	on the product	insert.	
	Polymer	ization:	Will oc	cur [] Will not occu	ır [X]				
10.4	Conditio	ons To Avoid:	No dat	a available.					
10.5	Incompa	atibility - Materials	No dat	a available.					
	To Avoi	d:							
10.6	Hazardo	us	No dat	a available.					
	Decomp	osition Or							
	Byprodu	icts:							
			Se	ction 11. Toxico	logical	Informa	ation		
11.1	Information	tion on		xicological effects of this				udied.	
		ogical Effects:		.	-				
CAS		-	ponent	s (Chemical Name)		NTP	IARC	ACGIH	OSHA
	98-40-4	Tildipirosin				n.a.	n.a.	n.a.	n.a.
		ļ .		Contion 12 Each		format	ion	Į	
				Section 12. Ecolo		normat			
12.1	Toxicity	:		release into the environm			- II .		
	_	-		ff from fire control or dilution water may cause pollution.					
12.2	Persiste		No dat	a available.					
	Degrada	-							
12.3	Bioaccu Potentia	mulative I:	No dat	a available.					
12.4	Mobility		No dat	a available.					
	-								
12.5	Results	of PBT and vPvB	no dat	a avallaule.					
								Ν	Iulti-region forma



a	issessm	ent:						
12.6 O	Other ad	verse effects:	No data available.					
			Section 13. Dispos	al Considerat	ions			
13.1 W	13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.							
			Section 14. Trans	sport Informat	ion			
14.1 L	LAND TH	RANSPORT (US	DOT):					
DOT	T Proper	Shipping Name	: Not dangerous goods.					
DOT	T Hazaro	l Class:						
	NA Num							
		-	opean ADR/RID):					
ADR/RID Shipping Name: UN Number:			Not dangerous goods.					
	ard Clas	-						
		NSPORT (ICAO/	IATA):					
		Shipping Name:	Not dangerous goods.					
Additior			Transport in accordance with lo	cal, state, and federal	regulations.			
Informa					C C			
			Section 15. Regul	atory Informat	ion			
EPA SA	ARA (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)		
328898	8-40-4	Tildipirosin		No	No	No		
CAS #		Hazardous Com	ponents (Chemical Name)	Other US EPA or S	state Lists	- -		
328898	3-40-4	Tildipirosin	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No					
Regulate	ory Info	rmation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)					
Stateme	ent:		No.1272/2008.					
			Section 16. Oth	er Information	١			
Revision	n Date:		03/20/2015					
Additional Information About			No data available.					
1	nal Infor	mation About	No data available.					
This Pro		mation About	No data available.					
This Pro	oduct:	mation About / or Disclaimer:	DISCLAIMER: This information		•			
This Pro	oduct:		DISCLAIMER: This information currently available to us. Howev	er, we make no warra	inty of merchantabilit	y or any other warranty,		
This Pro	oduct:		DISCLAIMER: This information currently available to us. Howev express or implied, with respect	er, we make no warra to such information, a	nty of merchantabilit and we assume no lia	y or any other warranty, ability resulting from its		
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