

Revision: 08/30/2016 Supersedes Revision: 02/21/2014

	CHIMICAL		Supersedes Revision: 02/21/2014				
	accord	ling to Regulation (EC) No. 1907/2006 as amended by	(EC) No. 1272/2008				
	Section 1. Ide	entification of the Substance/Mixture and of th	ne Company/Undertaking				
.1	Product Code:	14503					
	Product Name:	Virginiamycin complex					
	Synonyms:	N-((6R,9S,10R,13S,15aS,22S,24aS)-22-benzyl-6-ethyl-10,23-dimethyl-5,8,12,15,17,21,24-hep					
	aoxo-13-phenyldocosahydro-12H-pyrido[2,1-f]pyrrolo[2,1-l][1]oxa[4,7,10,13,16]pentaazacyclo						
	nadecin-9-yl)-3-hydroxypicolinamide compound with						
		(12Z,6R,7R,8E,13Z,15E,17S)-17-hydroxy-6-iso	opropyl-7,15-dimethyl-32,33-dihydro-31H-5-oxa				
		1-aza-1(4,2)-oxazola-3(1,5)-pyrrolacycloicosar	ohane-8,13,15-triene-2,4,10,19-tetraone (1:1);				
		Mikamycin; Streptogramin; RP 7293; Stapyoci	ne;				
.2	Relevant identified uses of t	he substance or mixture and uses advised ag	ainst:				
	Relevant identified uses:	For research use only, not for human or vetering	nary 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 number:						
	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 Substance or Mixture:						
	Acute Toxicity: Oral, Category 4						
	Serious Eye Damage/Eye	Irritation, Category 1					
	Skin Sensitization, Catego	ry 1					
.2	Label Elements:						
	GHS Signal Word:	Danger					
	GHS Hazard Phrases:	-					
	H302: Harmful if swallowed.						
	H317: May cause an allergic skin reaction.						
	H318: Causes serious eye damage.						
	GHS Precaution Phrases:						
	P261: Avoid breathing {dust/fume/gas/mist/vapors/spray}.						
	P264: Wash {hands} thoroughly after handling.						
	P272: Contaminated work clothing should not be allowed out of the workplace.						
	P280: Wear {protective gloves/protective clothing/eye protection/face protection}.						
	GHS Response Phrases:						
	P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.						
	P302+352: IF ON SKIN: Wash with plenty of soap and water.						
	P305+351+338: IF IN EYES	: Rinse cautiously with water for several minutes.	Remove contact lenses, if present and easy				
	to do. Continue rinsing.						
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	P310:	Immediately call a	POISON CENTER or doctor/p	hysician.					
	P330:	Rinse mouth.							
	P333+313: If skin irritation or rash occurs, seek medical advice/attention.								
	P362-	+364: Take off conta	aminated clothing and wash it	before reuse.					
	GHS	Storage and Dispo	sal Phrases:						
	Pleas	e refer to Section 7	for Storage and Section 13 for	Disposal informatio	n.				
2.3	Advers	e Human Health	Causes serious eye damage						
	Effects	and Symptoms:	Harmful if swallowed.						
			Material may be irritating to t	he mucous membra	nes and upper re	spiratory tract.			
			May be harmful by inhalation or skin absorption.						
			May cause an allergic skin re	eaction.					
			May cause skin or respirator	y system irritation.					
			To the best of our knowledge, the toxicological properties have not been thoroughly investigated.						
		Sect	tion 3. Composition	/Information	on Ingredie	ents			
CAS	#/	Hazardous Com	oonents (Chemical Name)/	Concentration	EC No./	GHS Classification			
RTE	CS #	REACH Registra	tion No.		EC Index No.				
	06-76-1	Virginiamycin		100.0 %	234-244-6	Acute Tox.(O) 4: H302			
ZA48	50000				NA	Skin Sens. 1: H317			
						Eye Damage 1: H318			
			Section 4. Fi	rst Aid Measu	Jres				
4.1	Descri	ption of First Aid							
	Measu								
		e of Inhalation:	Remove to fresh air. If not bro	eathing give artificia	l respiration or di	ve oxygen by trained personnel.			
	in out		Get immediate medical atten						
			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 Indestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an						
	In Case of Ingestion:		unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by						
			medical personnel.						
—									
			Section 5. Fire	<u> </u>					
5.1	Suitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.								
	Media: Use water spray to cool fire-exposed containers.								
			A solid water stream may be	inefficient.					
	Media:								
5.2	Flammable Properties and No data available.								
	Hazard	ls:							
			No data available.						
	Flash F	Pt:	No data.						
	Explos	ive Limits:	LEL: No data.	UEL: No da	ata.				
	-	nition Pt:	No data.						
5.3	-		s: As in any fire, wear self-cont	ained breathing and	aratus pressure a	lemand (NIOSH approved or			
0.0	i ne Flé	grang manucuons	equivalent), and full protectiv		-				
			equivalent, and full protectiv	e gear to prevent co	naci wili skii di	iu 6y63.			

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6.1

6.2

6.3

7.1

7.2

8.1

CAS #

CAS #

8.2

8.2.1

SAFETY DATA SHEET Virginiamycin complex

Revision: 08/30/2016 Supersedes Revision: 02/21/2014 Section 6. Accidental Release Measures Avoid raising and breathing dust, and provide adequate ventilation. **Protective Precautions,** Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves). **Emergency Procedures:** Environmental Take steps to avoid release into the environment, if safe to do so. **Precautions:** 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 Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray. in Handling: Avoid prolonged or repeated exposure. Precautions To Be Taken Keep container tightly closed. Store in accordance with information listed on the product insert. in Storing: Section 8. Exposure Controls/Personal Protection **Exposure Parameters: Partial Chemical Name Britain EH40** France VL Europe No data. No data. No data. 11006-76-1 Virginiamycin **OSHA TWA ACGIH TWA** Other Limits **Partial Chemical Name** No data. No data. No data. 11006-76-1 Virginiamycin **Exposure Controls: Engineering Controls** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne (Ventilation etc.): levels below recommended exposure limits. 8.2.2 Personal protection equipment: **Eye Protection:** Safety glasses Compatible chemical-resistant gloves **Protective 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. ce Practices: Wash thoroughly after handling. No data available.



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	Se	ction 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				
	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): No data.				
	Solubility in Water:	No data.				
	Solubility Notes:	~15 mg/ml in DMSO; ~30 mg/ml in DMF;				
	Autoignition Pt:	No data.				
9.2	Other Information					
	Percent Volatile:	No data.				
	Molecular Formula & Weig	ht: C43H49N7O10 • C28H35N3O10 1396.6				
		Section 10. Stability and Reactivity				
0.1	Reactivity:	No data available.				
0.2	Stability:	Unstable [] Stable [X]				
10.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert.						
	Polymerization:	Will occur [] Will not occur [X]				
0.4	Conditions To Avoid:	No data available.				
0.5	Incompatibility - Materials activated carbon					
		peroxides				
		strong acids				
	5	strong bases				
	\$	strong oxidizing agents				
10.6	Hazardous	carbon dioxide				
	Decomposition or	carbon monoxide				
	Byproducts:	hydrogen chloride				
		hydrogen fluoride gas				
	I	nitrogen oxides				



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			Section 11. Toxico	logical li	nformat	tion		
1.1	Informati Toxicolo	ion on gical Effects:						
	Chronic Toxicological Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is pr Effects: See actual entry in RTECS for complete information. Virginiamycin complex RTECS Number: ZA4850000				CS) data is pre	sented here.		
CAS #	ŧ	Hazardous Components (Chemical Name)			NTP	IARC	ACGIH	OSHA
11006-76-1 Virginiamycin		Virginiamycin			n.a.	n.a.	n.a.	n.a.
			Section 12. Ecolo	ogical Inf	formatio	on		
12.1	Toxicity:	ty: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.						
2.2	Persister Degrada		No data available.					
2.3	Bioaccur Potential		No data available.					
2.4	Mobility		No data available.					
2.5			No data available.					
2.6	assessm Other ad	ent: verse effects:	No data available.					
2.0	Other au	verse effects.						
			Section 13. Dispo					
13.1	Waste Di	sposal Method:	Dispose in accordance with loc	al, state, and	federal reg	gulations.		
			Section 14. Trar	sport Inf	formatio	on		
14.1	LAND T	RANSPORT (US I	ЮОТ):					
D	OT Proper OT Hazarc N/NA Num		Not dangerous goods.					
14.1	LAND TH	D TRANSPORT (European ADR/RID):						
U	DR/RID Sh N Number azard Clas	/RID Shipping Name: Not dangerous goods. lumber: Not dangerous goods.						
14.3	AIR TRA	NSPORT (ICAO/I	ATA):					
IC	AO/IATA	A Shipping Name: Not dangerous goods.						
Addit	ional Tran	sport	Transport in accordance with l	ocal, state, ar	nd federal r	egulations.		
Inform	nation:							
			Section 15. Regu	latory In	formation	on		
EPA S	SARA (Su	perfund Amendm	ents and Reauthorization Act	of 1986) Lis	ts			
CAS #		Hazardous Components (Chemical Name)		S. 302 (E		S. 304 RQ		B (TRI)
1100	6-76-1	Virginiamycin		No		No	No	
CAS #			oonents (Chemical Name)	Other US EPA or State Lists				
1100	6-76-1	Virginiamycin	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No					

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Regulatory Information	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)			
Statement:	No.1272/2008.			
	Section 16. Other Information			
Revision Date:	08/30/2016			
Additional Information About	out No data available.			
This Product:				
	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.			