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		acc	cording to Regulation (EC) No. 190	7/2006 as amended by	y (EC) No. 1272/200)8
		Section 1.	Identification of the Substar	nce/Mixture and of	the Company/U	ndertaking
1.1	Product Product Synony	Name:	16140 Kanamycin A O-3-amino-3-deoxyalph syl-(1->4)]-2-deoxy-D-str		l-(1->6)-O-[6-amir	no-6-deoxyalphaD-glucopyra
1.2		nt identified uses of ant identified uses	of the substance or mixture a For research use only, no		-	
1.3	Details	of the Supplier of	the Safety Data Sheet:			
	Comp	any Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	pany		
	Web s	ite address:	www.caymanchem.com			
	Inform	nation:	Cayman Chemical Comp	pany	+1 (73-	4)971-3335
1.4	Emerge	ncy telephone nui	mber:			
	Emerg	ency Contact:	CHEMTREC Within USA CHEMTREC Outside US			0)424-9300 3)527-3887
			Section 2. Ha	zards Identific	cation	
2.1.1 2.2 2.2.1 2.3	Label El Labelin GHS S GHS F Based GHS F No ph GHS S Please Advers	lements: log according to Res Signal Word: Hazard Phrases: I on evaluation of co Precaution Phrases rases apply. Response Phrases rases apply. Storage and Disponse refer to Section 7 e Human Health and Symptoms:	s: sal Phrases: for Storage and Section 13 for Material may be irritating to t May be harmful by inhalation May cause eye, skin, or resp To the best of our knowledge	[CLP]: stance or mixture is Disposal information he mucous membran , ingestion, or skin a iratory system irritati e, the toxicological pr	n. nes and upper res bsorption. ion. roperties have not	spiratory tract.
		Sect	ion 3. Composition	/Information	on Ingredie	nts
CAS RTEC		Hazardous Comp REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification
	-01-8 62000	Kanamycin		100.0 %	200-411-7 NA	No data available.
<u> </u>						Multi-region form



cription of First Aid sures: ase of Inhalation: ase of Skin Contact: ase of Eye Contact: ase of Ingestion: able Extinguishing ia: uitable Extinguishing ia: hmable Properties an ards: h Pt: losive Limits:	Get immediate med Immediately wash s clothing. Get medica Hold eyelids apart a and tested by medic Wash out mouth wit unconscious persor medical personnel. Section 5 Use alcohol-resista Use water spray to g A solid water strear	lical attention. skin with soap and plenty al attention if symptoms of and flush eyes with plenty cal personnel. th water provided person b. Get medical attention. 5. Fire Fighting I nt foam, carbon dioxide, cool fire-exposed contain	water, or dry chemical spray	utes. Remove contaminated reuse. utes. Have eyes examined hything by mouth to an less directed to do so by							
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ards: h Pt:											
ards: h Pt:											
	No data.		Hazards:								
losive Limits:											
	LEL: No data.	UEL: 1	No data.								
Dignition Pt:	No data.										
Fighting Instructions	s: As in any fire, wear	self-contained breathing	apparatus pressure-deman	d (NIOSH approved or							
0 0	-	-	ent contact with skin and eyes								
	Section 6. A	ccidental Releas	se Measures								
ective Precautions,	Avoid raising and b	preathing dust, and provid	de adequate ventilation.								
ective Equipment an	d As conditions warra	ant, wear a NIOSH appro	oved self-contained breathing	g apparatus, or respirator,							
ergency Procedures:	and appropriate pe	ersonal protection (rubber	r boots, safety goggles, and	heavy rubber gloves).							
ironmental	Take steps to avoid	d release into the enviror	ment, if safe to do so.								
autions:											
tainment and Cleanir	ngTransfer to a chem	ical waste container for o	Jisposal in accordance with I	local regulations.							
	Section 7	7. Handling and	Storage								
autions To Be Taker	Avoid breathing due	st/fume/gas/mist/vapours	s/spray.								
andling:	Avoid prolonged or	repeated exposure.									
autions To Be Taker	Keep container tigh	tly closed.									
toring:	Store in accordance	e with information listed o	on the product insert.								
Sec	tion 8. Expos	ure Controls/Pe	rsonal Protection								
	•										
sure Parameters:	Name	Britain EH40	France VL	Europe							
i		No data.	No data.	No data.							
	ods and Material Fo ainment and Cleanin autions To Be Taker ndling: autions To Be Taker oring: Sec sure Parameters:	autions: ods and Material For Contain spill and c ainment and CleaningTransfer to a chem Section 7 autions To Be Taken Avoid breathing due ndling: Avoid prolonged or autions To Be Taken Keep container tigh pring: Store in accordance Section 8. Expos sure Parameters: Partial Chemical Name	autions: ods and Material For Contain spill and collect, as appropriate. ainment and CleaningTransfer to a chemical waste container for or Section 7. Handling and autions To Be Taken Avoid breathing dust/fume/gas/mist/vapours andling: Avoid prolonged or repeated exposure. autions To Be Taken Keep container tightly closed. bring: Store in accordance with information listed or Section 8. Exposure Controls/Pe sure Parameters: Partial Chemical Name	autions: ods and Material For Contain spill and collect, as appropriate. ainment and Cleaning Transfer to a chemical waste container for disposal in accordance with I Section 7. Handling and Storage autions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray. andling: Avoid prolonged or repeated exposure. autions To Be Taken Keep container tightly closed. bring: Store in accordance with information listed on the product insert. Section 8. Exposure Controls/Personal Protection sure Parameters: Partial Chemical Name Britain EH40 France VL							



CAS #	¥	Partial Chemical	Name	OSHA TWA	ACGIH TWA	Other Limits		
59-	-01-8	Kanamycin		No data.	No data.	No data.		
3.2	Exposur	e Controls:		+	I	ł		
8.2.1 8.2.2	(Ventilation etc.): levels below recommended exposure limits.							
	Eye Pro		Safety glasses					
	-	ve Gloves:	Compatible chemica	I-resistant gloves				
			-	roolotant glovoo				
	Other Protective Clothing:Lab coat Respiratory Equipment NIOSH approved respirator, as conditions warrant. (Specify Type):							
	Work/Hy	/gienic/Maintena	n Do not take internally	<i>.</i>				
	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.							
		S	ection 9. Phys	sical and Cher	nical Properties			
).1	Informat	ion on Basic Phy	sical and Chemical P	roperties				
		I States:] Liquid [X] Sol	id			
	Appeara	ance and Odor:	A crystalline	solid				
	Melting	Point:	No data.					
	Boiling	Point:	No data.					
	Flash Pt	::	No data.					
	Evapora	tion Rate:	No data.					
	Explosiv	ve Limits:	LEL: No data	a.	UEL: No data.			
	Vapor P Hg):	ressure (vs. Air c	or mm No data.					
	Vapor D	ensity (vs. Air = [·]	I): No data.					
	Specific	Gravity (Water =	1): No data.					
	Solubilit	ty in Water:	No data.					
	Solubilit	ty Notes:	~5 mg/ml in F	PBS (pH 7.2);				
	Autoign	ition Pt:	No data.					
).2	Other Inf	formation						
		Volatile:	No data.					
	Molecul	ar Formula & We	ight: C18H36N4O	11 484.5				
			Section 10	. Stability and	Reactivity			
0.1	Reactivi	ity:	No data available.					
0.2	Stability	' :	Unstable [] Sta	able [X]				
0.3	Stability	v Note(s):	Stable if stored in ac	cordance with informa	ation listed on the product inse	ert.		
	Polymer	rization:	Will occur [] W	'ill not occur [X]				
0.4	-	ons To Avoid:	No data available.					
0.5			s No data available.					
-	To Avoi	-						
0.6	Hazardo		No data available.					
		osition Or						
	Byprodu							
	_,p.out							
						Multi-region forr		



11.1	Information	n on	The toxicological effects of this product ha	ve not been tl	norouahlv stua	died.			
	Toxicologic		Kanamycin A - Toxicity Data: Oral LD50 (ra		• •): 1515 ma/k		
	Toxicologic		Subcutaneous LD50 (rat): 4070 mg/kg; Ora	, ,		•			
			(mouse): 794 mg/kg; Subcutaneous LD50	-		5, 11			
	Chronic To:	xicological	Kanamycin A - Investigated as a drug, mut			ector.			
	Effects:	0	Only select Registry of Toxic Effects of Ch				sented here.		
			See actual entry in RTECS for complete in	formation.					
			Kanamycin A RTECS Number: WK196200	00					
CAS	CAS # Hazardous Com		ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
59	-01-8 Ka	anamycin		n.a.	n.a.	n.a.	n.a.		
	·		Section 12. Ecological Ir	formatio	n	·	·		
12.1	Toxicity:		Avoid release into the environment.						
	-		Runoff from fire control or dilution water ma	ay cause poll	ution.				
12.2	Persistence	e and	No data available.						
	Degradabili	ity:							
12.3	Bioaccumu	lative	No data available.						
	Potential:								
12.4	Mobility in S	Soil:	No data available.						
12.5	-		No data available.						
	assessmen								
12.6	Other adver	rse effects:	No data available.						
			Section 13. Disposal Con	sideratio	ns				
13.1	Waste Disp	osal Method:	Dispose in accordance with local, state, an						
			Section 14. Transport Ir	formatio	n				
14.1	LAND TRA	NSPORT (US D	DOT):						
D	OT Proper SI	hipping Name:	Not dangerous goods.						
D	OT Hazard C	lass:							
U	N/NA Numbe	er:							
14.1	LAND TRA	NSPORT (Euro	ppean ADR/RID):						
Α	DR/RID Ship	ping Name:	Not dangerous goods.						
U	N Number:								
Н	azard Class:								
14.3	AIR TRANS	SPORT (ICAO/I	ATA):						
	AO/IATA Sh	ipping Name:	Not dangerous goods.						
	ional Transp	ort	Transport in accordance with local, state, a	and federal re	gulations.				



EDA GADA (GI					
		nents and Reauthorization Act	-		
CAS #		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
59-01-8	Kanamycin		No	No	No
CAS #		ponents (Chemical Name)	Other US EPA o		
59-01-8 Kanamycin			CAA HAP,ODC: Inventory; CA P	No; CWA NPDES ROP.65: No	: No; TSCA: Yes -
Regulatory Info	ormation	This SDS was prepared in accord No.1272/2008.	ordance with 29 CFF	R 1910.1200 and R	egulation (EC)
		Section 16. Ot	her Informatio	on	
Revision Date:		03/03/2015			
Additional Info This Product:	rmation About	No data available.			
		express or implied, with respectuse. Users should make their of their particular purposes.			