

SAFETY DATA SHEET Phleomycin

Revision: 10/02/2018 Supersedes Revision: 12/17/2014

	CHIMICAL	o Dogulation (EQ) No. 1007/2007 as among the two (EQ) No. 2015/20	Supersedes Revision: 12/17/2					
	°	o Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/83						
	Section 1. Ide	entification of the Substance/Mixture and of the	ie Company/Undertaking					
.1	Product Code: Product Name: Synonyms:	duct Name: Phleomycin						
		I carbamate, copper(II) salt, monohydrochlorid						
.2	Relevant identified uses of t Relevant identified uses:	he substance or mixture and uses advised aga For research use only, not for human or veterin						
1.3	Details of the Supplier of the Company Name:	Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108						
	Web site address: Information:	www.caymanchem.com Cayman Chemical Company	+1 (734)971-3335					
.4	Emergency telephone numb							
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887					
		Section 2. Hazards Identification						
	GHS Signal Word:WarningGHS Hazard Phrases:H302: Harmful if swallowed.GHS Precaution Phrases:P264: Wash {hands} thoroughly after handling.GHS Response Phrases:P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.P330: Rinse mouth.GHS Storage and Disposal Phrases:Please refer to Section 7 for Storage and Section 13 for Disposal information.							

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6	7		P	hleomycin		Bovision	: 10/02/2018			
Cay	man			·		Supersedes Revision:				
2.3	Advers	e Human Health	Harmful if swallowed.							
	Effects	and Symptoms:	Material may be irritating to t	he mucous membr	anes and upper re	spiratory tract.				
			May be harmful by inhalation	or skin absorption						
			May cause eye, skin, or resp	iratory system irrita	ation.					
			To the best of our knowledge	, the toxicological	properties have no	t been thoroughly in	vestigated.			
		Sect	tion 3. Composition	/Information	on Ingredie	ents				
CAS	#/	1	oonents (Chemical Name)/	Concentration		GHS Classification				
RTEC		REACH Registra		Concentration	EC Index No.	GIIS Classification	on			
1100	6-33-0	Phleomycin		100.0 %	634-572-3	Acute Tox.(O) 4: I	H302			
SY052					NA					
		1	Section 4. Fi	st Aid Meas	sures	4				
4.1	Descrir	otion of First Aid								
	Measur									
		of Inhalation:	Remove to fresh air. If not bre	eathing, give artific	ial respiration or gi	ve oxvgen by traine	d personnel.			
			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 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	of Eye Contact:	Hold eyelids apart and flush e	eyes with plenty of	water for at least 1	5 minutes. Have ey	es examined			
			and tested by medical person	inel.						
	In Case	of Ingestion:	Wash out mouth with water p	rovided person is c	conscious. Never g	ive anything by moι	uth to an			
			unconscious person. Get me	dical attention. Do	NOT induce vomiti	ng unless directed t	o do so by			
			medical personnel.							
			Section 5. Fire	Fighting Me	asures					
5.1	Suitable	e Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.							
	Media:		Use water spray to cool fire-exposed containers.							
	Unsuita	able Extinguishing	A solid water stream may be inefficient.							
	Media:									
5.2	Flammable Properties andNo data available.									
	Hazard	s:								
			No data available.							
	Flash P	't:	No data.							
	Explosi	ive Limits:	LEL: No data.	UEL: No o	data.					
	Autoigr	nition Pt:	No data.							
5.3	Fire Fig	hting Instructions	s: As in any fire, wear self-conta	ained breathing ap	paratus pressure-d	lemand (NIOSH app	proved or			
			equivalent), and full protectiv	e gear to prevent c	contact with skin ar	nd eyes.				
			Section 6. Acciden	tal Release	Measures					
6.1	Protect	ive Precautions,	Avoid raising and breathing	dust, and provide a	adequate ventilation	n.				
	Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respire									
	Emerge	ency Procedures:	and appropriate personal pro	otection (rubber bo	ots, safety goggles	s, and heavy rubber	gloves).			
6.2	Enviror	nmental	Take steps to avoid release	into the environme	nt, if safe to do so.					
	Precaut	tions:								
6.3	Method	ls and Material Fo	r Contain spill and collect, as	appropriate.						
	Contair	nment and Cleanir	ngTransfer to a chemical waste	e container for disp	osal in accordance	e with local regulatio	ns.			
	Up:									

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		Section 7. Handling and Storage						
7.1	1 Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray.							
	in Handling: Avoid prolonged or repeated exposure.							
7.2	Precautions To Be Taken	Keep container tightly closed.						
	in Storing:	Store in accordance with information listed on the product insert.						
	Section	on 8. Exposure Controls/Personal Protection						
8.1	Exposure Parameters:							
8.2	Exposure Controls:							
8.2.1	Engineering Controls	Jse process enclosures, local exhaust ventilation, or other engineering controls to control airborn						
	(Ventilation etc.):	evels below recommended exposure limits.						
8.2.2	Personal protection equipn	nent:						
	Eye Protection:	Safety glasses						
	Protective Gloves: 0	Compatible chemical-resistant gloves						
	Other Protective Clothing:L	.ab coat						
	Respiratory Equipment	NOSH approved respirator, as conditions warrant.						
	(Specify Type):							
	Work/Hygienic/Maintenan Do not take internally.							
	ce Practices: F	Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.						
	V	Wash thoroughly after handling.						
	١	No data available.						
	Se	ction 9. Physical and Chemical Properties						
9.1	Information on Basic Physic							
	Physical States:	[]Gas []Liquid [X]Solid						
	Appearance and Odor:	A crystalline 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.						
	Explosive Limits:	LEL: No data. UEL: No data.						
	Vapor Pressure (vs. Air or r	mm No data.						
	Hg):							
	Vapor Density (vs. Air = 1):	No data.						
	Specific Gravity (Water = 1)	: No data.						
	Solubility in Water:	No data.						
	Solubility Notes:	~10 mg/ml in PBS (pH 7.2);						
	Octanol/Water Partition	No data.						
	Coefficient:							

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Cay	man					· ·		S	Revisio Supersedes Revisio	on: 10/02/2018 on: 12/17/2014
	Autoigni	ition Pt:		No data.					•	
	Decomp	osition Temperat	ure:	No data.						
	Viscosit			No data.						
9.2	Other Inf	-								
	Percent	Volatile:		No data.						
		ar Formula & Wei	aht:		N20O21S20	Cu • HCl 1	526.5			
			-			bility and	Reactiv	vitv		
10.1	Reactivi	tv:		a availabl			1104011	ity.		
10.2	Stability	-	Unstab		Stable [X	1				
10.3	-	Note(s):			-	- ce with informa	tion listed o	n the produc	t insert.	
	Polymer		Will oc	cur[]	Will not o	ccur [X]				
10.4	-	ons To Avoid:		a availabl						
10.5		atibility - Materials								
	To Avoid	-	, en en g	o	agonto					
10.6	Hazardo		carbon	dioxide						
		osition or		monoxid	e					
	Byprodu			n oxides						
	71		<u> </u>	otion	14 Tavi		Informo	tion		
						cological				
11.1	Informat			-		his product ha				- //
	Toxicolo	gical Effects:		-	-	-		-	(mouse): 371 mg ise): 25 mg/kg;	ј/кд;
	Chronic	Taviaglagiagl	-							.4
	Effects:	Toxicological	Phleomycin - Investigated as an agricultural chemical, mutagen. and natural product. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.							
	Ellecis.		-	-	-	for complete in				enteu nere.
						r: SY0525000	ionnation.			
CAS	#	Hazardous Com		-			NTP	IARC	ACGIH	OSHA
	06-33-0	Phleomycin		- (n.a.	n.a.	n.a.	n.a.
				oction	12 Eq	ological Ir				
12.1	Toxicity				to the enviro		nonnau	011		
12.1	TOXICITY					lution water m	av cause po	llution.		
12.2	Persiste	nce and		a availabl			.,			
12.2	Degrada		No dat	a availabi	0.					
12.3	-	mulative	No dat	a availabl	0					
12.5	Potentia		NO GUU	u uvullubi	0.					
12.4	Mobility		No dat	a availabl	0					
	-									
12.5		of PBT and vPvB	NO Gat	a avaliabi	e.					
40.0	assessm		NI- 1 /							
12.6	Other ad	lverse effects:	INO dat	a availabl	le.					
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		Section 13. Dispo	sal Considera	ations					
13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.									
		Section 14. Trar	sport Informa	ation					
14.1 LAND	TRANSPORT (US	DOT):							
DOT Prop	er Shipping Name	: Not dangerous goods.							
DOT Haza	rd Class:								
UN/NA Nu	ımber:								
14.1 LAND	TRANSPORT (Eur	opean ADR/RID):							
	Shipping Name:	Not dangerous goods.							
UN Numb									
Hazard Cl		// A T A).							
	RANSPORT (ICAO/ A Shipping Name:	•							
Additional Tra		Transport in accordance with le	ocal state and feder	ral regulations					
Information:	ansport	Transport in accordance with		a regulations.					
		Section 15. Regu	latory Inform	otion					
		ŭ	2	allon					
EPA SARA (S CAS #		nents and Reauthorization Act	of 1986) Lists S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)				
11006-33-0	Phleomycin	iponents (Chemical Name)	No	No	No				
CAS #		ponents (Chemical Name) Other US EPA or State Lists							
11006-33-0	Phleomycin		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No						
Regulatory In	formation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)							
Statement:		No.1272/2008.							
		Section 16. Ot	her Informatio	on					
Revision Date	:	10/02/2018							
Additional Info	ormation About	No data available.							
This Product:									
Company Poli	cy or Disclaimer:	DISCLAIMER: This 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.							