

Revision: 04/22/2015

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 number:     Emergency telephone number:   Emergency telephone number:     Emergency Contact:   CHEMTREC Within USA and Canada:   +1 (703)527-3887     2.1   Classification of the Substance or Mixture:   2.1     2.1   Classification according to Regulation (EC) No 1272/2008 [CLP]:   2.1     2.1   Label Elements:   2.1     2.1   Label Regulation to Currently available data this substance or mixture is not classifiable according to GHS.     GHS Nazard Phrases:   None     GHS Neage and Disposal Phrases:   No phrases apply.     GHS Response Phrases:   No phrases apply.     GHS Response Phrases:   No phrases apply.     GHS Response Phrases:   Na phrases apply.     GHS Response Phrases:   Na phrases apply.     GHS Response Phrases:   Na periating to the mucous membranes and upper respiratory tract.     Effects and Symptoms:   Material may be irritating to the mucous membranes and upper respiratory tract.     Effects and Symptoms:									
1.1   Product Code:   15504     Product Name:   Herbinycin A     Synonyms:   17-demethoxy-15R-methoxy-11-O-methyl-geldanamycin; Antibiotic TAN 420F; NSC 305     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 Safety Data Sheet:     Company Name:   Cayman Chemical Company 1180 E. Ellsworth Rd, Ann Arbor, MI 49108     Web site address:   www.caymanchem.com     Information:   Cayman Chemical Company 1180 E. Ellsworth Rd, Ann Arbor, MI 49108     Web site address:   www.caymanchem.com     Information:   Cayman Chemical Company 1180 E. Ellsworth Rd, Ann Arbor, MI 49108     Web site address:   Www.caymanchem.com     Information:   Cayman Chemical Company 1180 E. Ellsworth Rd, Ann Arbor, MI 49108     Web site address:   Www.caymanchem.com     Information:   Cayman Chemical Campany 1180 E. Ellsworth Rd, Ann Arbor, MI 49108     214   Emergency Contact:   CHEMTREC Outside USA and Canada:   +1 (703)527-3887     215   Classification according to Regulation (EC) No 1272/2008 [CLP]:   CHEMTREC Outside USA and Canada:   +1 (703)527-3887     216			aco	cording to Regulation (EC) No. 190	)7/2006 as amended	by (EC) No. 1272/20	08		
Product Name:   Herbinycin A Synonyms:   Herbinycin A Synonyms:   Herbinycin A Synonyms:     17-demethoxy-15R-methoxy-11-0-methyl-geldanamycin; Antibiotic TAN 420F; NSC 305     1.2   Relevant identified uses:   For research use only, not for human or veterinary use.     1.3   Details of the Supplier of the Safety Data Sheet:     Company Name:   Cayman Chemical Company 1180 E. Elisworth Rd. Ann Arbon, MI 48108     Web site address:   www.caymanchem.com Information:   Cayman Chemical Company 1180 E. Elisworth Rd. Ann Arbon, MI 48108     Web site address:   www.caymanchem.com Information:   Cayman Chemical Company 1180 E. Elisworth Rd. Ann Arbon, MI 48108     Web site address:   www.caymanchem.com Information:   Cayman Chemical Company 1180 E. Elisworth Rd. Ann Arbon, MI 48108     Web site address:   Web site address:   +1 (704)971-3335     Emergency Contact:   CHEMTREC Within USA and Canada:   +1 (703)527-3887     Z   LabelEinemeths:   2.1   Classification of the Substance or Mixture:   2.1     Z.1   Classification according to Regulation (EC) No 1272/2008 [CLP]:   GHS Signal Word:   None     GHS Hazard Phrases:   None   GHS Response Phrases:   No phrases apply.     GHS Response Phrases:   No phrases apply.   GHS Storage and Dispo			Section 1.	Identification of the Substar	nce/Mixture and o	f the Company/U	ndertaking		
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Web site address:   www.caymanchem.com     Information:   Cayman Chemical Company   +1 (734)971-3335     1.4   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     2.1   Classification of the Substance or Mixture:       2.1   Classification according to Regulation (EC) No 1272/2008 [CLP]:       2.2.1   Label Elements:        2.2.1   Label Nord:   None   GHS Signal Word:   None   GHS Hazard Phrases:     Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.   GHS Response Phrases:      No phrases apply.   GHS Response Phrases:   No phrases apply.       GHS Response Phrases:   No phrases apply.   Material may be irritating to the mucous membranes and upper respiratory tract.      Effects and Symptoms:   Material may be irritating to the mucous membranes and upper respiratory tract.   May cause eye, skin, or respiratory system irritation.     2.3   Adverse Human Health   Materi									
1.4   Emergency telephone number:   +1 (800)424-9300     CHEMTREC Outside USA and Canada:   +1 (703)527-3887     Section 2. Hazards Identification     2.1   Classification of the Substance or Mixture:     2.1.1   Classification according to Regulation (EC) No 1272/2008 [CLP]:     2.2   Label Elements:     2.2.1   Labeling according to Regulation (EC) No 1272/2008 [CLP]:     GHS Signal Word:   None     GHS Hazard Phrases:     Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.     GHS Precaution Phrases:     No phrases apply.     GHS Storage and Disposal Phrases:     Please refer to Section 7 for Storage and Section 13 for Disposal information.     2.3   Adverse Human Health     Material may be irritating to the mucous membranes and upper respiratory tract.     Effects and Symptoms:   May be harmful by inhalation, ingestion, or skin absorption.     May cause eye, skin, or respiratory system irritation.     To the best of our knowledge, the toxicological properties have not been thoroughly investige     Section 3. Composition/Information on Ingredients     CAS # /   Hazardous Components (Chemical Name)/   Concentration   EC No./   GHS Classifica		Web sit	e address:						
Emergency Contact:   CHEMTREC Within USA and Canada:   +1 (800)424-9300     CHEMTREC Outside USA and Canada:   +1 (703)527-3887     Section 2. Hazards Identification     2.1   Classification of the Substance or Mixture:     2.1   Classification according to Regulation (EC) No 1272/2008 [CLP]:     2.2   Label Elements:     2.1   Labeling according to Regulation (EC) No 1272/2008 [CLP]:     GHS Signal Word:   None     GHS Hazard Phrases:   Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.     GHS Precaution Phrases:   None     No phrases apply.   GHS Storage and Disposal Phrases:     No phrases apply.   GHS Storage and Disposal Phrases:     Please refer to Section 7 for Storage and Section 13 for Disposal information.     2.3   Adverse Human Health     Effects and Symptoms:   May be irritating to the mucous membranes and upper respiratory tract.     Effects and Symptoms:   May cause eye, skin, or respiratory system irritation.     To the best of our knowledge, the toxicological properties have not been thoroughly investigation formation on Ingredients     Section 3. Composition/Information on Ingredients     CAS #/   Hazardous Components (Chemical Name)/   Concentration		Informa	tion:	-	bany	+1 (73	4)971-3335		
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May cause eye, skin, or respiratory system irritation.     To the best of our knowledge, the toxicological properties have not been thoroughly investigation     Section 3. Composition/Information on Ingredients     CAS # /   Hazardous Components (Chemical Name)/     RTECS #   Hazardous Components (Chemical Name)/     Concentration   EC No./     EC Index No.   EC Index No.	2.3	Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract.							
To the best of our knowledge, the toxicological properties have not been thoroughly investigated investigation in the best of our knowledge, the toxicological properties have not been thoroughly investigated investigation investination invest investination investigation investigation investigat		Effects a	nd Symptoms:	May be harmful by inhalation	n, ingestion, or skin	absorption.			
Section 3. Composition/Information on Ingredients     CAS # /   Hazardous Components (Chemical Name)/   Concentration   EC No./   GHS Classification     RTECS #   REACH Registration No.   Concentration   EC Index No.   GHS Classification				May cause eye, skin, or resp	iratory system irrita	ation.			
CAS # / Hazardous Components (Chemical Name)/ Concentration EC No./ GHS Classification RTECS # REACH Registration No. EC Index No.				To the best of our knowledge	e, the toxicological p	properties have no	t been thoroughly investigate		
RTECS # REACH Registration No. EC Index No.			See	ion 3. Composition	/Information	on Ingredie	nts		
70563-58-5 Geldanamycin, 100.0 % NA No data available.			Sec	•					
			Hazardous Com	oonents (Chemical Name)/	Concentration		GHS Classification		
LX8930000 17-demethoxy-15-methoxy-11-O-methyl-, (15R)- NA	RTEC	CS#	Hazardous Comp REACH Registra	oonents (Chemical Name)/		EC Index No.			
				C.	· · · · ·	• •			

Multi-region format



# SAFETY DATA SHEET Herbimycin A

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			Section 4	4. First Aid M	easures			
4.1	Descrip	otion of First Aid	No data available.					
	Measur	es:						
	In Case	of Inhalation:	Remove to fresh air. I Get immediate medicate		artificial respiration or give oxyg	en by trained personnel.		
	In Case	of Skin Contact:	-		ty of water for at least 15 minute			
	In Casa	of Eve Contect	•	• •	s occur. Wash clothing before re			
	in Case	of Eye Contact:	and tested by medica		ity of water for at least 15 minut	tes. Have eyes examined		
	In Case	of Ingestion:			on is conscious. Never give any n. Do NOT induce vomiting unle	÷ ·		
			Section 5.	Fire Fighting	Measures			
5.1	Suitable	e Extinguishing	Use alcohol-resistant	foam, carbon dioxide	e, water, or dry chemical spray.			
	Media:		Use water spray to co	ool fire-exposed cont	ainers.			
	Unsuita	able Extinguishing	A solid water stream	may be inefficient.				
	Media:							
5.2	Flamma	able Properties an	<b>d</b> No data available.					
	Hazard							
	Flash P		No data.					
	-	ve Limits:	LEL: No data.	UEL:	No data.			
		nition Pt:	No data.					
5.3	5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approv equivalent), and full protective gear to prevent contact with skin and eyes.							
			Section 6. Ac	cidental Relea	ase Measures			
6.1	Protect	ive Precautions,	Avoid raising and bre	eathing dust, and pro	vide adequate ventilation.			
	Protect	ive Equipment and	<b>d</b> As conditions warran	nt, wear a NIOSH app	proved self-contained breathing	apparatus, or respirator,		
	Emerge	ency Procedures:	and appropriate pers	sonal protection (rubb	er boots, safety goggles, and h	eavy rubber gloves).		
6.2	Enviror	nmental	Take steps to avoid r	release into the envir	onment, if safe to do so.			
	Precaut							
6.3			r Contain spill and coll					
		ment and Cleanir	ng Transfer to a chemic	al waste container fo	r disposal in accordance with lo	ocal regulations.		
	Up:							
			Section 7.	Handling an	d Storage			
7.1	Precaut	tions To Be Taken	Avoid breathing dust/		rs/spray.			
	in Hand	-	Avoid prolonged or re					
7.2			Keep container tightly					
	in Stori	ng:	Store in accordance	with information listed	I on the product insert.			
		Sec	tion 8. Exposu	ire Controls/P	ersonal Protection			
8.1	Exposu	re Parameters:						
CAS	#	Partial Chemical	Name	Britain EH40	France VL	Europe		
7056	3-58-5	Geldanamycin, 17-demethoxy-15 I-, (15R)-	-methoxy-11-O-methy	No data.	No data.	No data.		
						Multi-region format		



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CAS #	¥	Partial Chemical N	ame	OSHA TWA	ACGIH TWA	Other Limits		
70563-58-5		Geldanamycin, 17-demethoxy-15-n I-, (15R)-	nethoxy-11-O-methy	No data.	No data.	No data.		
8.2	Exposu	e Controls:		ļ	l.	ł		
3.2.1	Enginee	ering Controls	Jse process enclosu	res, local exhaust ventilation	on, or other engineering c	ontrols to control airbor		
	(Ventila	tion etc.):	evels below recomme	ended exposure limits.				
8.2.2	Persona	al protection equip	nent:					
	Eye Pro	tection:	Safety glasses					
	Protecti	ve Gloves:	Compatible chemical-	-resistant gloves				
	Other P	rotective Clothing:	_ab coat					
	Respira	tory Equipment	NIOSH approved resp	pirator, as conditions warra	ant.			
	(Specify	/ Туре):						
	Work/H	ygienic/Maintenan	Do not take internally					
	ce Prac	tices:	Facilities storing or ut	ilizing this material should	be equipped with an eyew	wash and a safety show		
			Nash thoroughly afte	r handling.				
		I	No data available.					
		Se	ction 9. Phys	ical and Chemica	al Properties			
9.1	Informat	ion on Basic Physi	cal and Chemical Pr	operties				
	Physica	I States:	[ ] Gas [	] Liquid [X] Solid				
	Appeara	ance and Odor:	A yellow lyoph	nilisate				
	Melting	Point:	No data.					
	Boiling	Point:	No data.					
	Flash P	t:	No data.					
	Evapora	ation Rate:	No data.					
	Explosi	ve Limits:	LEL: No data	. UE	EL: No data.			
	Vapor P Hg):	ressure (vs. Air or	<b>mm</b> No data.					
	Vapor D	ensity (vs. Air = 1):	No data.					
	Specific	: Gravity (Water = 1	): No data.					
	Solubili	ty in Water:	No data.					
	Solubili	ty Notes:	Soluble in: Et	OH, MeOH, DMSO, & DM	F;			
	Autoign	ition Pt:	No data.					
9.2	Other In	formation						
	Percent	Volatile:	No data.					
	Molecul	ar Formula & Weig	ht: C30H42N2O9	574.7				
			Section 10.	. Stability and Re	activity			
10.1	Reactiv	ity:	No data available.	-	-			
10.2	Stability	/:	Jnstable [ ] Stal	ble [ X ]				
10.3	Stability	/ Note(s):	Stable if stored in acc	ordance with information I	listed on the product inser	t.		
	Polyme	rization:	Will occur [ ] Wi	ll not occur [ X ]				
10.4	Conditio	ons To Avoid:	No data available.					
10.5	Incompatibility - Materials strong oxidizing agents							
	To Avoi	d:						
10.6	Hazardo	bus	carbon dioxide					
	Decomp	osition Or	carbon monoxide					
						Multi-region for		



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	Byprodu	013.	nitrogen oxides						
			Section 11. Toxicological	I Informa	ation				
11.1	Informat	ion on	The toxicological effects of this product have not been thoroughly studied.						
	Toxicolo	bgical Effects: Herbimycin A - Toxicity Data: Intraperitoneal LD50 (mouse): 19 mg/							
	Chronic	Toxicological	Herbimycin A - Investigated as an agricul	tural chemic	al and natural	product.			
	Effects:		Only select Registry of Toxic Effects of C		stances (RTE	CS) data is pre	sented here.		
			See actual entry in RTECS for complete						
			Herbimycin A RTECS Number: LX89300						
CAS #			ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
7056	3-58-5	(15R)-	7-demethoxy-15-methoxy-11-O-methyl-,	n.a.	n.a.	n.a.	n.a.		
			Section 12. Ecological I	Information	ion				
12.1	Toxicity:		Avoid release into the environment.						
			Runoff from fire control or dilution water r	nay cause po	ollution.				
12.2	Persister		No data available.						
	Degrada	-							
12.3	Bioaccu		No data available.						
	Potentia								
12.4	Mobility		No data available.						
12.5			No data available.						
	assessm								
12.6	Other ad	verse effects:	No data available.						
			Section 13. Disposal Co						
13.1	Waste Di	isposal Method:	Dispose in accordance with local, state, a		-				
			Section 14. Transport I	Informat	ion				
14.1	LAND TI	RANSPORT (US	DOT):						
		Shipping Name	: Not dangerous goods.						
D0	OT Hazaro								
		d Class:							
U	N/NA Num	nber:							
UN 14.1	N/NA Num LAND TI	nber: RANSPORT (Euro	opean ADR/RID):						
UN 14.1 A[	N/NA Num LAND TI DR/RID SI	nber: RANSPORT (Euro nipping Name:							
UN 14.1 AI UN	N/NA Num LAND TI DR/RID Sh N Number	nber: RANSPORT (Euro nipping Name: ':	opean ADR/RID):						
UN 14.1 AI UN Ha	N/NA Num LAND TI DR/RID SI N Number azard Clas	nber: RANSPORT (Euro nipping Name: :: ss:	<b>opean ADR/RID):</b> Not dangerous goods.						
UN 14.1 AI UN Ha 14.3	N/NA Num LAND TI DR/RID Sf N Number azard Clas AIR TRA	nber: RANSPORT (Euro nipping Name: : ss: NSPORT (ICAO/	opean ADR/RID): Not dangerous goods. IATA):						
UI 14.1 AI UI Ha 14.3 IC	N/NA Num LAND TI DR/RID Sf N Number azard Clas AIR TRA	nber: RANSPORT (Euro nipping Name: :: :: :: SS: NSPORT (ICAO/ Shipping Name:	<b>opean ADR/RID):</b> Not dangerous goods.	. and federal	regulations.				



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		Section 15. Regul	atory Informa	ation	
EPA SARA (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)
70563-58-5	Geldanamycin, 17-demethoxy-15	5-methoxy-11-O-methyl-, (15R)-	No	No	No
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or	r State Lists	
70563-58-5	Geldanamycin, 17-demethoxy-15	5-methoxy-11-O-methyl-, (15R)-	CAA HAP,ODC: PROP.65: No	No; CWA NPDES	: No; TSCA: No; CA
Regulatory Info Statement:	ormation	This SDS was prepared in acco No.1272/2008.	rdance with 29 CFF	R 1910.1200 and R	egulation (EC)
		Section 16. Oth	ner Informatio	on	
Revision Date:		04/22/2015			
Additional Info This Product:	rmation About	No data available.			
Company Policy or Disclaimer:		currently available to us. Howev express or implied, with respect use. Users should make their or their particular purposes.	to such information	i, and we assume r	no liability resulting from its