

Revision: 10/14/2019 Supersedes Revision: 03/15/2017

	according t	o Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830	and US OSHA HCS 2015				
	Section 1. Id	entification of the Substance/Mixture and of the	e Company/Undertaking				
1.1	Product Code: 11435						
	Product Name:						
	Synonyms:	6-amino-8-[[(aminocarbonyl)oxy]methyl]-1,1aS,	2,8S,8aR,8bS-hexahydro-8a-methoxy-5-methyl				
		zirino[2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione; Ametycine; MitoExtra; Mitonco; Mitoplus; MMC; NSC 26980;					
.2	Relevant identified uses of t	he substance or mixture and uses advised aga	inst:				
	Relevant identified uses:	ntified uses: For research use only, not for human or veterinary 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				
1.4	Emergency telephone numb		4 (200) 404 0000				
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887				
		Section 2. Hazards Identifica	ation				
	GHS Signal Word:	Danger					
	GHS Hazard Phrases:						
	H300: Fatal if swallowed.						
	H351: Suspected of causing cancer.						
	GHS Precautionary Phrases:						
	P201: Obtain special instructions before use.						
	P202: Do not handle until all safety precautions have been read and understood.						
	P264: Wash {hands} thoroughly after handling.						
	P280: Wear {protective gloves/protective clothing/eye protection/face protection}.						
	GHS Response Phrases:						
	P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.						
	P308+313: IF exposed or concerned: Get medical attention/advice. P330: Rinse mouth.						
	GHS Storage and Disposal Phrases:						
	Please refer to Section 7 for	r Storage and Section 13 for Disposal information.					



2.3	Adverse Hum Effects and S		California Prop. 65 carcinoge Fatal if swallowed. Material may be irritating to t			Supersedes Revision: 03/15/2017		
	Effects and S	ymptoms:		he mucous membra				
			Material may be irritating to t	he mucous membra				
				ne mucous membre	anes and upper re	spiratory tract.		
			May be harmful by inhalation	or skin absorption.				
			May cause eye, skin, or resp	iratory system irritat	tion.			
			Suspected of causing cance					
				• •	-	t been thoroughly investigated.		
			ion 3. Composition	1	on Ingredie	nts		
CAS # RTEC		rdous Comp CH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification		
50-	07-7 Mitom	ycin C		100.0 %	200-008-6	Acute Tox.(O) 2: H300		
CN070	0000				NA	Carcinogen 2: H351		
			Section 4. Fi	rst Aid Meas	ures			
4.1	Description o	f First Aid						
	Measures:							
	In Case of Inf	alation:			al respiration or gi	ve oxygen by trained personnel.		
			Get immediate medical atten					
	In Case of Sk	in Contact:	-			5 minutes. Remove contaminated		
	clothing. Get medical attention if symptoms occur. Wash clothing before reuse. In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes ex							
	In Case of Ey	e Contact:	and tested by medical persor		water for at least 1	5 minutes. Have eyes examined		
	In Case of Inc	unstion.			onscious Nevera	ive anything by mouth to an		
	-			n water provided person is conscious. Never give anything by mouth to an . Get medical attention. Do NOT induce vomiting unless directed to do so by				
	medical personnel.							
4.2	Important Sy	nptoms and	Exposure may cause: Nause	a, vomiting, diarrhea	a, alopecia.			
				ionary fibrosis and permanent damage.				
	Delayed:		To the best of our knowledge, the toxicological properties have not been thoroughly investigated.					
			Section 5. Fire	Fighting Me	asures			
5.1	Suitable Extir	nguishing	Use alcohol-resistant foam, o	carbon dioxide, wate	er, or dry chemica	l spray.		
	Media:		Use water spray to cool fire-	ater spray to cool fire-exposed containers.				
	Unsuitable Extinguishing A solid water stream may be inefficient.							
	Media:							
5.2	Flammable Properties andNo data available.							
	Hazards:							
			No data available.					
	Flash Pt:		No data.					
	Explosive Lin	nits:	LEL: No data.	UEL: No d	ata.			
	Autoignition	Pt:	No data.					
5.3	Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or							
	equivalent), and full protective gear to prevent contact with skin and eyes.							



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	S	Section 6. Accidental Release Measures				
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.				
	Protective Equipment and	As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,				
	Emergency Procedures:	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).				
6.2	Environmental	Take steps to avoid release into the environment, if safe to do so.				
	Precautions:					
6.3	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				
7.1	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					
	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		Jse process enclosures, local exhaust ventilation, or other engineering controls to control airborne				
	(Ventilation etc.):	evels below recommended exposure limits.				
8.2.2	Personal protection equipment:					
	Eye Protection:	Safety glasses				
	Protective Gloves:	Compatible chemical-resistant gloves				
	Other Protective Clothing:Lab coat					
	Respiratory Equipment	NIOSH approved respirator, as conditions warrant.				
	(Specify Type):	(Specify Type):				
	Work/Hygienic/Maintenan					
		Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.				
Wash thoroughly after handling.						
		No data available.				
	Se	ction 9. Physical and Chemical Properties				
9.1	-	cal and Chemical Properties				
	Physical States:	[]Gas []Liquid [X]Solid				
	Appearance and Odor:	A crystalline solid				
	pH:	No data.				
	Melting Point:	No data.				
	Boiling Point: Flash Pt:	No data. 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					
	Hg):					
	Vapor Density (vs. Air = 1):	No data.				
	· · · · · ·					
		Multi-region format				

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Specific Gravity (Water =	1): No data.			
Solubility in Water:	No data.			
Solubility Notes:	~0.5 mg/ml in PBS (pH 7.2); ~0.1 mg/ml in EtOH; ~20 mg/ml in DMSO & DMF;			
<b>Octanol/Water Partition</b>	No data.			
Coefficient:				
Autoignition Pt:	No data.			
Decomposition Temperat	ture: No data.			
Viscosity:	No data.			
Other Information				
Percent Volatile:	No data.			
Molecular Formula & Wei	ght: C15H18N4O5 334.3			
	Section 10. Stability and Reactivity			
Reactivity:	No data available.			
Stability:	Unstable [ ] Stable [ X ]			
Stability Note(s): Stable if stored in accordance with information listed on the product insert.				
Polymerization: Will occur [ ] Will not occur [ X ]				
Conditions To Avoid:	ata available.			
Incompatibility - Material	s strong acids			
To Avoid:	strong bases			
	strong oxidizing agents			
Hazardous	carbon dioxide			
Decomposition or	carbon monoxide			
Byproducts:	nitrogen oxides			
	Section 11. Toxicological Information			
Information on	The toxicological effects of this product have not been thoroughly studied.			
Toxicological Effects:	Mitomycin C - Toxicity Data: Oral LD50 (rat): 30 mg/kg; Subcutaneous LD50 (rat): 3250 ug/kg; Oral			
	LD50 (mouse): 23 mg/kg; Intraperitoneal LD50 (mouse): 4 mg/kg; Subcutaneous LD50 (mouse):			
	7300 ug/kg;			
Chronic Toxicological	Mitomycin C - Investigated as a drug, mutagen, natural product, reproductive effector, and			
Effects:	tumorigen.			
	Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.			
	See actual entry in RTECS for complete information.			

Carcinogenicity/Other California Prop. 65 carcinogen. IARC: Group 2B: Possible human carcinogen (Mitomycin C) Information:

Mitomycin C RTECS Number: CN0700000

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
50-07-7	Mitomycin C	n.a.	2B	n.a.	n.a.



# SAFETY DATA SHEET Mitomycin C

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				<b>C</b> ape.cos		
		Section 12. Ecolo	gical Informat	ion		
12.1 Toxicity:	•					
Runoff from fire control or dilution water may caus			n water may cause p	ollution.		
12.2 Persistenc	e and	No data available.				
Degradabi	lity:					
12.3 Bioaccum	ulative	No data available.				
Potential:						
12.4 Mobility in	Soil:	No data available.				
		No data available.				
assessmei 12.6 Other adve	erse effects:	No data available.				
	eise eilects.		al Canaidarat	iono		
12.1 Weste Dis	accel Mothedu	Section 13. Dispos				
13.1 Waste Dis		Dispose in accordance with loca		-		
		Section 14. Trans	sport informat	ion		
	NSPORT (US E					
-	hipping Name:		sources, solid, n.o.s.	(Mitomycin C)		
DOT Hazard C		6.1 POISON	Dealth a Or			
UN/NA Numbe	er:	UN3462	Packing Grou	ip:	III	
	POISON 6					
	-	ppean ADR/RID):				
ADR/RID Ship	ping Name:	Toxin, extracted from living				
UN Number:		3462	Packing Grou	ip:	III	
Hazard Class		6.1 - POISON				
I4.3 AIR TRAN	SPORT (ICAO/I	Toxin, extracted from living	sources solid n.o.s.	(Mitomycin C)		
UN Number:	npping name.	3462	Packing Group: III		Ш	
Hazard Class:		6.1 - POISON	IATA Classification:		6.1	
Additional Trans	port	Transport in accordance with lo	cal, state, and federa	l regulations.		
Information:		When sold in quantities of less t	than or equal to 1 mL	, or 1 g, with an Exce	pted Quantity Code of	
		E1, E2, E4, or E5, this item mee				
		Therefore packaging does not h		-	ccepted Quantity.	
		Section 15. Regul	atory Information	tion		
		ents and Reauthorization Act of	-		<b>.</b>	
		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
	litomycin C		Yes 500 LB	Yes 10 LB	No	
	Hazardous Components (Chemical Name) Other US EPA or State Lists					
50-07-7 Mitomycin C CAA HAP,ODC: No; CWA NPDES: No; TSO   Inventory, 5A(2), 12(b); CA PROP.65: Yes: 0						
					Multi-region forma	



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Cayman	Supersedes Revision: 10/14/2019 Supersedes Revision: 03/15/2017
Regulatory Information Statement:	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.
	Section 16. Other Information
Revision Date:	10/14/2019
Additional Information About This Product:	No data available.
Company Policy or Disclaimer:	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.