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		Section 1. Id	entification of the Substance/Mixture and	of the Company/U	ndertaking			
.1	Product Code:22289Product Name:CilengitideSynonyms:cyclo(L-arginylglycyl-Lalphaaspartyl-D-phenylalanyl-N-methyl-L-valyl); EMD 121974;							
.2		identified uses of the identified uses:	tified uses of the substance or mixture and uses advised against: ntified uses: For research use only, not for human or veterinary use.					
.3	Details of the Supplier of the Safety Data Sheet:							
		ny Name:	Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	ipany				
	Web site	e address:	www.caymanchem.com					
	Informa	tion:	Cayman Chemical Company	+1 (73	4)971-3335			
.4	-	cy telephone numł ncy Contact:	Der: CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	•	0)424-9300 3)527-3887			
			Section 2. Hazards Iden	ification				
2.1	Classifica	ation of the Substa						
	Label Ele							
2.2	Label Elect GHS Sig GHS Ha Based o GHS Pro No phra GHS Re No phra GHS Sto Please r Adverse	ments: gnal Word: azard Phrases: on evaluation of curr recaution Phrases: uses apply. esponse Phrases: uses apply. orage and Disposa refer to Section 7 fo Human Health	Ince or Mixture: None Prently available data this substance or mixture al Phrases: In Storage and Section 13 for Disposal inform Material may be irritating to the mucous mem May be harmful by inhalation, ingestion, or sk May cause eye, skin, or respiratory system ir To the best of our knowledge, the toxicologic	ation. oranes and upper rea n absorption. itation. I properties have no	spiratory tract. t been thoroughly investigated			
2.1 2.2 2.3	Label Eler GHS Sig GHS Ha Based o GHS Pro No phra GHS Sto Please r Adverse Effects a	ments: gnal Word: azard Phrases: on evaluation of curr recaution Phrases: uses apply. orage and Disposa refer to Section 7 fo Human Health	Ince or Mixture: None rently available data this substance or mixture al Phrases: r Storage and Section 13 for Disposal inform Material may be irritating to the mucous mem May be harmful by inhalation, ingestion, or sk May cause eye, skin, or respiratory system ir To the best of our knowledge, the toxicologic on 3. Composition/Informatic nents (Chemical Name)/	ation. oranes and upper rea n absorption. itation. I properties have no	spiratory tract. t been thoroughly investigated			



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		Section 4. First Aid Measures				
4.1	Description of First Aid					
	Measures:					
	In Case of Inhalation:	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 eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.				
	In Case of Ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.				
		Section 5. Fire Fighting Measures				
5.1	Suitable Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.				
	Media:	Use water spray to cool fire-exposed containers.				
	Unsuitable Extinguishing Media:	a A solid water stream may be inefficient.				
5.2	Flammable Properties ar Hazards:	dNo data available.				
		No data available.				
	Flash Pt:	No data.				
	Explosive Limits:	LEL: No data. UEL: No data.				
	Autoignition Pt:	No data.				
5.3	Fire Fighting Instructions	s: 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.				
		Section 6. Accidental Release Measures				
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.				
	Protective Equipment an	d 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.					
	Up:	hgTransfer to a chemical waste container for disposal in accordance with local regulations.				
		Section 7. Handling and Storage				
 7.1	Precautions To Be Taker	Avoid breathing dust/fume/gas/mist/vapours/spray.				
'	in Handling:	Avoid prolonged or repeated exposure.				
7.2		Neep container tightly closed.				
	in Storing:	Store in accordance with information listed on the product insert.				
	Sec	tion 8. Exposure Controls/Personal Protection				
8.1	Exposure Parameters:					

Multi-region format



8.2							
	Exposure Controls:						
8.2.1		se process enclosures, local exhaust ventilation, or other engineering controls to control airborne					
	· · · · · ·	evels below recommended exposure limits.					
8.2.2	Personal protection equipment:						
	-	lasses					
	Protective Gloves: Compatible chemical-resistant gloves Other Protective Clothing:Lab coat						
	Respiratory Equipment NIOSH approved respirator, as conditions warrant.						
	(Specify Type):						
	Work/Hygienic/Maintenan Do not take internally.						
		acilities storing or utilizing this material should be equipped with an eyewash and a safety showe					
	V	Vash thoroughly after handling.					
	Ν	lo data available.					
	See	ction 9. Physical and Chemical Properties					
9.1	Information on Basic Physic	al and Chemical Properties					
	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	nm No data.					
	Hg):						
	Vapor Density (vs. Air = 1):	No data.					
	Specific Gravity (Water = 1)	: No data.					
	Solubility in Water:	No data.					
	Solubility Notes:	~0.5 mg/ml in PBS (pH 7.2); ~1 mg/ml in EtOH; ~20 mg/ml in DMSO; ~30 & DMF;					
	Octanol/Water Partition	No data.					
	Coefficient:						
	Autoignition Pt:	No data.					
	Decomposition Temperatur	e: No data.					
	Decomposition Temperatur Viscosity:	e: No data. No data.					
9.2							
9.2	Viscosity:						

Multi-region format



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			Section 10. Stability	and Reactiv	vity			
10.1	Reactivity: No data available.							
10.2	Stability: Unstable [] Stable [X]							
10.3	Stability	Note(s):	Stable if stored in accordance with information listed on the product insert.					
	Polymer	ization:	Will occur [] Will not occur [X					
10.4	4 Conditions To Avoid: No data available.							
10.5	Incompa	tibility - Materials	strong acids					
	To Avoid:		strong bases					
			strong oxidizing agents					
			strong reducing agents					
10.6	Hazardo		No data available.					
	=	osition or						
	Byprodu	icts:						
			Section 11. Toxicolog	cal Informa	ation			
11.1	Informat	ion on	The toxicological effects of this produ	ict have not beer	n thoroughly st	udied.		
	Toxicolo	gical Effects:						
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
1889	68-51-6	Cilengitide		n.a.	n.a.	n.a.	n.a.	
		•	Section 12. Ecologic	al Informat	ion	·	·	
12.1	Toxicity	:	Avoid release into the environment.					
	-		Runoff from fire control or dilution water may cause pollution.					
12.2	Persiste	nce and	No data available.					
	Degrada	bility:						
12.3	Bioaccu	mulative	No data available.					
	Potentia	I:						
12.4	Mobility	in Soil:	No data available.					
12.5	Results	of PBT and vPvB	B No data available.					
	assessm	nent:						
12.6	Other ad	lverse effects:	No data available.					
			Section 13. Disposal	Considerat	ions			
13.1	Wasta D	isposal Method:	Dispose in accordance with local, sta					
	Huble D		•		•			
			Section 14. Transpo	nt mormat				
14.1		RANSPORT (US I	•					
	-	r Shipping Name:	Not dangerous goods.					
	OT Hazaro							
_	N/NA Nun							
14.1		RANSPORT (Euro						
		hipping Name:	Not dangerous goods.					
	N Number							
H	azard Cla	55:						

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Cayman	

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:

Transport in accordance with local, state, and federal regulations.

Not dangerous goods.

Information:

Additional Transport

Section 15. Regulatory Information

CAS #	Hazardous Components (Chemical Name)		S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
188968-51-6	Cilengitide		No	No	No		
CAS #	# Hazardous Components (Chemical Name)		Other US EPA o	r State Lists	•		
188968-51-6	Cilengitide		CAA HAP,ODC: PROP.65: No	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Information Statement:		This SDS was prepared in acc No.1272/2008.	ordance with 29 CFF	R 1910.1200 and R	egulation (EC)		
		Section 16. Ot	her Information	on			
Revision Date:		12/15/2017					
Additional Information About		No data available.					
This Product:							
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.					