

SAFETY DATA SHEET Endothelin-1 (human, porcine)

		accord	ling to Regulation (EC) No. 190	7/2006 as amended by	y (EC) No. 1272/200	8		
		Section 1. Ide	entification of the Substar	nce/Mixture and of	the Company/Ur	ndertaking		
1.1	Produc Produc Synony	t Name:	24127 Endothelin-1 (human, po ET-1;	rcine)				
1.2			he substance or mixture a		-			
	Relev	ant identified uses:	For research use only, ne	ot for human or vete	rinary use.			
1.3	Comp	of the Supplier of the pany Name:	e Safety Data Sheet: Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	pany				
		site address:	www.caymanchem.com					
		nation:	Cayman Chemical Comp	bany	+1 (734	4)971-3335		
1.4	-	ency telephone numb						
	Emerg	gency Contact:	CHEMTREC Within USA and Canada:			0)424-9300		
			CHEMTREC Outside US			3)527-3887		
			Section 2. Ha	zards Identifio	cation			
2.1 2.2		cation of the Substar	nce or Mixture:					
2.2								
GHS Signal Word: None								
		Hazard Phrases:			not close;fickle.co			
Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.								
	GHS Precaution Phrases:							
	No phrases apply. GHS Response Phrases: No phrases apply.							
	-	Storage and Disposal	Phrasos					
			Storage and Section 13 for	Disposal informatio	n			
2.3			U U	•		piratory tract.		
 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. 								
		, ,	lay cause eye, skin, or resp	-	-			
		Т	o the best of our knowledge	e, the toxicological p	roperties have not	been thoroughly investigated.		
		Sectio	n 3. Composition	/Information	on Ingredie	nts		
CAS RTE	# / CS #	-	Hazardous Components (Chemical Name)/ REACH Registration No.		EC No./ EC Index No.	GHS Classification		
	399-94-7 47500	-Cys11-V	Ser-Leucine-Met-Asp-Lys-Glu eucine-Asp-Ile-Ile-Trp-OH	100.0 %	687-671-9 NA	No data available.		
	_							

Multi-region format



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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 solid water stream may be inefficient.			
5.2	Flammable Properties an Hazards:	dNo data available.			
	nazarus:	No data available.			
	Flash Pt:	No data.			
	Explosive Limits:	LEL: No data. UEL: No data.			
	Autoignition Pt:	No data.			
5.3	-	: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or			
0.0	The Fighting instructions	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 Precautions:	Take steps to avoid release into the environment, if safe to do so.			
6.3		r Contain spill and collect, as appropriate.			
		ng 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	Keep 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:				

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	HEMICAL							
8.2	Exposure Controls:							
8.2.1	Engineering Controls	Use 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):							
	Work/Hygienic/Maintenan Do not take internally.							
		Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.						
	,	Wash thoroughly after handling.						
	No data available.							
		ation 0 Devoiced and Chamical Dranartica						
		ction 9. Physical and Chemical Properties						
9.1		cal and Chemical Properties						
	Physical States:	[]Gas []Liquid [X]Solid						
	Appearance and Odor:	A lyophilized powder						
	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	mm No data.						
	Hg):							
	Vapor Density (vs. Air = 1):	No data.						
	Specific Gravity (Water = 1): No data.						
	Solubility in Water:	No data.						
	Solubility Notes:	~1 mg/ml in formic acid;						
	Octanol/Water Partition	No data.						
	Coefficient:							
	Autoignition Pt:	No data.						
	Decomposition Temperatu	re: No data.						
	Viscosity:	No data.						
9.2	Other Information							
	Percent Volatile:	No data.						
	Molecular Formula & Weig							
	-							

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			Section 10. Stability and	Reacti	vity				
10.1	Reactivi	ty:	No data available.						
10.2	Stability	:	Unstable [] Stable [X]						
10.3	Stability	Note(s):	Stable if stored in accordance with information	tion listed of	on the product	insert.			
	Polymerization:		Will occur [] Will not occur [X]						
10.4	Conditio	ons To Avoid:	No data available.						
10.5	Incompa	tibility - Materials	acids						
	To Avoid	d:	bases						
10.6	Hazardous Decomposition or Byproducts:		carbon dioxide						
			carbon monoxide nitrogen oxides sulfur oxides						
				Inform	ation				
11.1	Informat	ion on	Section 11. Toxicological The toxicological effects of this product ha			udied			
		gical Effects:	The toxicological enects of this product ha		in thoroughly st	duicu.			
CAS		- I	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
	# 99-94-7		-Ser-Ser-Leucine-Met-Asp-Lys-Glu-Cys11				_		
1173	99-94-7		s15-His-Leucine-Asp-Ile-Ile-Trp-OH	n.a.	n.a.	n.a.	n.a.		
			Section 12. Ecological Ir	format	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.						
Degradability:									
12.3	Bioaccu	mulative	No data available.						
	Potential:								
12.4	Mobility	in Soil:	No data available.						
12.5 Results of PBT and vPvB No data availab			No data available.						
	assessm	nent:							
12.6	Other ad	lverse effects:	No data available.						
			Section 13. Disposal Con	siderat	ions				
13.1	Waste D	isposal Method:	Dispose in accordance with local, state, an	d federal r	egulations.				
			Section 14. Transport Ir	nformat	ion				
14.1	LAND T	RANSPORT (US I	DOT):						
	-	r Shipping Name:	Not dangerous goods.						
	OT Hazar								
U	N/NA Nun	nber:							
14.1		RANSPORT (Euro							
		hipping Name:	Not dangerous goods.						
-	N Number								
H	azard Cla	SS:							
•••									



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14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name:

Not dangerous goods.

Additional Transport

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

Information:

Section 15. Regulatory Information

CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
117399-94-7	Glu-Cys11-V	3-Ser-Ser-Leucine-Met-Asp-Lys- 5-His-Leucine-Asp-Ile-Ile-Trp-OH 1->15	No	No	No	
CAS # Hazardous Com		ponents (Chemical Name)	Other US EPA or State Lists			
117399-94-7	Glu-Cys11-V	3-Ser-Ser-Leucine-Met-Asp-Lys- 5-His-Leucine-Asp-Ile-Ile-Trp-OH 1->15	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Information Statement:		This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)				
		No.1272/2008.				
		Section 16. Oth	er Informatio	on		
Revision Date:		01/21/2018				
Additional Info This Product:	ormation About	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.				