

Revision: 04/01/2018

	according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008						
	Section 1.	Identification of the Substance/Mixture and of the	e Company/Undertaking				
1.1	Product Code: 24769 Product Name: PACAP (1-27) (human, mouse, ovine, porcine, rat) Synonyms: L-histidyl-L-seryl-Lalphaaspartylglycyl-L-isoleucyl-L-phenylalanyl-L-threonyl-Lalphaaspartylglycyl-L-isoleucyl-L-glutaminyl-L-methionyl-L-alany -L-seryl-L-tyrosyl-L-seryl-L-arginyl-L-tyrosyl-L-arginyl-L-lysyl-L-glutaminyl-L-methionyl-L-alany valyl-L-lysyl-L-lysyl-L-lysyl-L-tyrosyl-L-leucyl-L-alanyl-L-valyl-L-leucinamide; Pituitary Adeny Cyclase-activating Peptide (1-27);						
.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 48108					
	Web site address:	www.caymanchem.com					
	Information:	Cayman Chemical Company	+1 (734)971-3335				
1.4	Emergency telephone nui						
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300				
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
		Section 2. Hazards Identifica	ation				
	GHS Signal Word:	Danger					
	GHS Hazard Phrases:	J					
	H360: May damage fertili	ty or the unborn child.					
	GHS Precaution Phrase	s:					
	P201: Obtain special instructions before use.						
	P202: Do not handle until all safety precautions have been read and understood.						
	P280: Wear {protective gloves/protective clothing/eye protection/face protection}.						
	GHS Response Phrases:						
	P308+313: IF exposed or concerned: Get medical attention/advice.						
	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.						
2.0	Effects and Symptoms:	May be harmful by inhalation, ingestion, or skin abs May cause eye, skin, or respiratory system irritation	sorption.				
	May damage fertility or the unborn child. To the best of our knowledge, the toxicological properties have not been thoroughly investigated.						

Multi-region format



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		Sect	tion 3. Composition	/Information of	on Ingredie	nts		
CAS # / RTECS #		Hazardous Comp REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification		
127317-03-7 NA		PACAP (1-27) (human, mouse, ovine, porcine, rat)		100.0 %	NA NA	No data available.		
			Section 4. Fi	rst Aid Measu	ires			
4.1 Description of First Aid								
	Measur	es:						
In Case of Inhalation: In Case of Skin Contact: In Case of Eye Contact: In Case of Ingestion:		of Inhalation:	 Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention. 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. Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel. 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. 					
		of Skin Contact:						
		of Eye Contact:						
		of Ingestion:						
			Section 5. Fire	Fighting Mea	asures			
5.1	Suitable	e Extinguishing	Use alcohol-resistant foam, c			spray.		
	Media:		Use water spray to cool fire-e	exposed containers.	-			
	Unsuita	able Extinguishing	A solid water stream may be	inefficient.				
	Media:							
5.2	Flamma Hazarda	-	d No data available.					
			No data available.					
	Flash P	't:	No data.					
	Explosi	ve Limits:	LEL: No data.	UEL: No da	ta.			
	Autoigr	nition Pt:	No data.					
5.3	Fire Fig	hting Instructions	: As in any fire, wear self-conta	ained breathing appa	aratus pressure-de	emand (NIOSH approved or		
			equivalent), and full protectiv	e gear to prevent cor	ntact with skin and	d eyes.		
			Section 6. Acciden	tal Release N	<i>leasures</i>			
6.1	Protect	ive Precautions,	Avoid raising and breathing	dust, and provide ad	equate ventilation	۱.		
				-	-	athing apparatus, or respirator,		
	Emerge	ency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).						
6.2	Enviror Precaut		Take steps to avoid release	into the environment	, if safe to do so.			
6.3			r Contain spill and collect, as	appropriate.				
			and Material For Contain spill and collect, as appropriate. Thent and CleaningTransfer to a chemical waste container for disposal in accordance with local regulations.					
	Up:					č		
			Section 7. Har	ndling and Sto	orage			
 7.1	Precau	tions To Be Taken	Avoid breathing dust/fume/ga	•	•			
	in Hanc		Avoid prolonged or repeated		,			
7.2			Keep container tightly closed					
	in Stori		Store in accordance with info		product insert.			
						Multi-region format		



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	Sect	tion 8. Exposure Controls/Personal Protection					
8.1	Exposure Parameters:						
3.2	Exposure Controls:						
3.2.1	Engineering Controls	Jse process enclosures, local exhaust ventilation, or other engineering controls to control airbo					
(Ventilation etc.): levels below recommended exposure limits.							
3.2.2	Personal protection equip	pment:					
	Eye Protection: Safety glasses						
	Protective Gloves:	Compatible chemical-resistant gloves					
	Other Protective Clothing:Lab coat						
	Respiratory Equipment	piratory Equipment NIOSH approved respirator, as conditions warrant.					
	(Specify Type):						
	Work/Hygienic/Maintenan	Do not take internally.					
	ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety showed					
		Wash thoroughly after handling.					
		No data available.					
	S	ection 9. Physical and Chemical Properties					
).1		sical 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 o	r mm No data.					
	Hg):						
	Vapor Density (vs. Air = 1): No data.					
	Specific Gravity (Water =	1): No data.					
	Solubility in Water:	~ 1 mg/ml					
	Octanol/Water Partition	No data.					
	Coefficient:						
	Autoignition Pt:	No data.					
	Decomposition Temperat	ure: No data.					
	Viscosity:	No data.					
9.2	Other Information						
	Percent Volatile:	No data.					

Multi-region format



10.2 S 10.3 S P 10.4 C 10.5 Ir T	-	No data available.							
10.3 S P 10.4 C 10.5 Ir T	-								
P 10.4 C 10.5 Ir T	Stability Note(s):	0.2 Stability: Unstable [] Stable [X]							
10.4 C 10.5 Ir T	10.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert.								
10.5 lr T	Polymerization:	Will occur [] Will not occur [X]							
т	Conditions To Avoid:	No data available.							
	10.5 Incompatibility - Materials strong acids								
	Γο Avoid:	strong bases carbon dioxide carbon monoxide							
10.6 H	Hazardous								
D	Decomposition or								
В	Byproducts:	nitrogen oxides							
		sulfur oxides							
		Section 11. Toxicologica	l Informa	ation					
11.1 lr	nformation on	The toxicological effects of this product h	ave not beer	thoroughly st	udied.				
т	Foxicological Effects:								
CAS #	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA			
127317	7-03-7 PACAP (1-27) (hu	uman, mouse, ovine, porcine, rat)	n.a.	n.a.	n.a.	n.a.			
	4	Section 12. Ecological	Informat	on					
12.1 T	Foxicity:	Avoid release into the environment.		-					
12.1 I OXICITY:			Runoff from fire control or dilution water may cause pollution.						
122 P	Persistence and	No data available							
	Persistence and	No data available.							
D	Degradability:								
D 12.3 B	Degradability: Bioaccumulative	No data available. No data available.							
D 12.3 B P	Degradability: Bioaccumulative Potential:	No data available.							
D 12.3 B P 12.4 N	Degradability: Bioaccumulative Potential: Mobility in Soil:	No data available. No data available.							
D 12.3 B P 12.4 N 12.5 R	Degradability: Bioaccumulative Potential: Mobility in Soil: Results of PBT and vPvB	No data available. No data available.							
D 12.3 B 12.4 N 12.5 R a	Degradability: Bioaccumulative Potential: Mobility in Soil: Results of PBT and vPvB assessment:	No data available. No data available. No data available.							
D 12.3 B 12.4 N 12.5 R a	Degradability: Bioaccumulative Potential: Mobility in Soil: Results of PBT and vPvB	No data available. No data available.							
D 12.3 B 12.4 N 12.5 R a	Degradability: Bioaccumulative Potential: Mobility in Soil: Results of PBT and vPvB assessment:	No data available. No data available. No data available.							
D 12.3 B 12.4 M 12.5 R 12.6 C	Degradability: Bioaccumulative Potential: Mobility in Soil: Results of PBT and vPvB assessment:	No data available. No data available. No data available. No data available. Section 13. Disposal Co	nsiderati	ons					
D 12.3 B 12.4 M 12.5 R 12.6 C	Degradability: Bioaccumulative Potential: Mobility in Soil: Results of PBT and vPvB assessment: Other adverse effects:	No data available. No data available. No data available. No data available. Section 13. Disposal Co	nsiderati	ONS egulations.					
D 12.3 B 12.4 M 12.5 R 12.6 C 13.1 V	Degradability: Bioaccumulative Potential: Mobility in Soil: Results of PBT and vPvB assessment: Other adverse effects:	No data available. No data available. No data available. No data available. Section 13. Disposal Co Dispose in accordance with local, state, a Section 14. Transport	nsiderati	ONS egulations.					
12.3 B 12.4 M 12.5 R 12.6 C 13.1 V 14.1 L	Degradability: Bioaccumulative Potential: Mobility in Soil: Results of PBT and vPvB assessment: Other adverse effects: Waste Disposal Method:	No data available. No data available. No data available. No data available. Section 13. Disposal Co Dispose in accordance with local, state, a Section 14. Transport	nsiderati	ONS egulations.					
D 12.3 B 12.4 M 12.5 R 12.6 C 13.1 V 14.1 L DOT	Degradability: Bioaccumulative Potential: Mobility in Soil: Results of PBT and vPvB assessment: Other adverse effects: Waste Disposal Method: LAND TRANSPORT (US D	No data available. No data available. No data available. No data available. Section 13. Disposal Co Dispose in accordance with local, state, a Section 14. Transport	nsiderati	ONS egulations.					
D 12.3 B 12.4 M 12.5 R 12.6 C 13.1 V 14.1 L DOT DOT	Degradability: Bioaccumulative Potential: Mobility in Soil: Results of PBT and vPvB assessment: Dther adverse effects: Waste Disposal Method: LAND TRANSPORT (US I T Proper Shipping Name:	No data available. No data available. No data available. No data available. Section 13. Disposal Co Dispose in accordance with local, state, a Section 14. Transport	nsiderati	ONS egulations.					
D 12.3 B 12.4 M 12.5 R 12.6 C 13.1 V 14.1 L 14.1 L DOT DOT	Degradability: Bioaccumulative Potential: Mobility in Soil: Results of PBT and vPvB assessment: Other adverse effects: Waste Disposal Method: LAND TRANSPORT (US D T Proper Shipping Name: T Hazard Class:	No data available. No data available. No data available. No data available. Section 13. Disposal Co Dispose in accordance with local, state, a Section 14. Transport DOT): Not dangerous goods.	nsiderati	ONS egulations.					
D 12.3 B 12.4 M 12.5 R 12.6 C 13.1 V 14.1 L DOT DOT UN/1 14.1 L	Degradability: Bioaccumulative Potential: Mobility in Soil: Results of PBT and vPvB assessment: Dther adverse effects: Waste Disposal Method: LAND TRANSPORT (US I T Proper Shipping Name: T Hazard Class: /NA Number:	No data available. No data available. No data available. No data available. Section 13. Disposal Co Dispose in accordance with local, state, a Section 14. Transport DOT): Not dangerous goods.	nsiderati	ONS egulations.					
D 12.3 B 12.4 M 12.5 R 12.6 C 13.1 V 14.1 L DOT UN/1 14.1 L ADF	Degradability: Bioaccumulative Potential: Mobility in Soil: Results of PBT and vPvB assessment: Dther adverse effects: Waste Disposal Method: LAND TRANSPORT (US D T Proper Shipping Name: T Hazard Class: /NA Number: LAND TRANSPORT (Euro	No data available. No data available. No data available. No data available. Section 13. Disposal Co Dispose in accordance with local, state, a Section 14. Transport DOT): Not dangerous goods.	nsiderati	ONS egulations.					



SAFETY DATA SHEET

PACAP (1-27) (human, mouse, ovine, porcine, rat)

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14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not dangerous goods.

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

Information:

Additional Transport

Section 15. Regulatory Information

CAS # Hazardous Com		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
127317-03-7	PACAP (1-27) (h rat)	uman, mouse, ovine, porcine,	No	No	No	
CAS # Hazardous Com		ponents (Chemical Name)	Other US EPA or State Lists			
127317-03-7	PACAP (1-27) (h rat)	uman, mouse, ovine, porcine,	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Inf Statement:	ormation	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:		04/01/2018				
Additional Info This Product:	ormation About	No data available.				
Company Poli	cy 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.				