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		to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830						
	Section 1. Ic	lentification of the Substance/Mixture and of th	e Company/Undertaking					
1.1	Product Code:	28546						
	Product Name:	Pentagastrin						
	Synonyms:	N-[(1,1-dimethylethoxy)carbonyl]betaalanyl-l nylalaninamide; AY 6608; NSC 367746;	L-tryptophyl-L-methionyl-Lalphaaspartyl-L-ph					
.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.							
.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					
.4	Emergency telephone num	ber:						
	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					
	<b>^</b>							
	GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed	Warning						
		L.						
	GHS Hazard Phrases: H302: Harmful if swallowed H312: Harmful in contact w	I. rith skin.						
	GHS Hazard Phrases: H302: Harmful if swallowed H312: Harmful in contact w H332: Harmful if inhaled. GHS Precautionary Phras P261: Avoid breathing {dus P264: Wash {hands} thorou	d. vith skin. s <b>es:</b> st/fume/gas/mist/vapors/spray}.	on}.					
	GHS Hazard Phrases: H302: Harmful if swallowed H312: Harmful in contact w H332: Harmful if inhaled. GHS Precautionary Phras P261: Avoid breathing {dus P264: Wash {hands} thorou P280: Wear {protective glow GHS Response Phrases: P301+312: IF SWALLOWE	d. ith skin. ses: st/fume/gas/mist/vapors/spray}. ughly after handling. ves/protective clothing/eye protection/face protection ED: P312: Call a POISON CENTER or doctor/physic						
	GHS Hazard Phrases: H302: Harmful if swallowed H312: Harmful in contact w H332: Harmful if inhaled. GHS Precautionary Phras P261: Avoid breathing {dus P264: Wash {hands} thorou P280: Wear {protective glov GHS Response Phrases: P301+312: IF SWALLOWE P302+352: IF ON SKIN: W P304+340: IF INHALED: R	d. with skin. ses: st/fume/gas/mist/vapors/spray}. ughly after handling. ves/protective clothing/eye protection/face protection ED: P312: Call a POISON CENTER or doctor/physic ash with plenty of soap and water. emove victim to fresh air and keep at rest in a posit	cian if you feel unwell.					
	GHS Hazard Phrases: H302: Harmful if swallowed H312: Harmful in contact w H332: Harmful in contact w H332: Harmful if inhaled. GHS Precautionary Phrase P261: Avoid breathing {dus P264: Wash {hands} thorou P280: Wear {protective glov GHS Response Phrases: P301+312: IF SWALLOWE P302+352: IF ON SKIN: W P304+340: IF INHALED: R P321: Specific treatment {s P330: Rinse mouth.	d. with skin. ses: st/fume/gas/mist/vapors/spray}. ughly after handling. ves/protective clothing/eye protection/face protection ED: P312: Call a POISON CENTER or doctor/physic ash with plenty of soap and water. emove victim to fresh air and keep at rest in a posit	cian if you feel unwell.					
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2.3		e Human Health and Symptoms:	<ul><li>Harmful if inhaled, swallowed, or in contact with skin.</li><li>Material may be irritating to the mucous membranes and upper respiratory tract.</li><li>May cause eye, skin, or respiratory system irritation.</li><li>To the best of our knowledge, the toxicological properties have not been thoroughly investigated.</li></ul>					
		Sect	tion 3. Composition	/Information	on Ingredie	ents		
CAS RTE		Hazardous Com REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification		
5534-95-2 pentagastrin AY2970000		pentagastrin		100.0 %	226-889-7 NA	Acute Tox.(O) 4: H302 Acute Tox.(D) 4: H312 Acute Tox.(I) 4: H332		
		•	Section 4. Fi	rst Aid Meas	ures	•		
4.1	Measu		Demous to frack size if and by		l no ninetion on ci			
	In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by Get immediate medical attention.							
		e of Skin Contact: e of Eye Contact:	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.					
		-						
	In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do medical personnel.							
			Section 5. Fire	Fighting Mea	asures			
5.1	Suitab Media:	le Extinguishing	Use alcohol-resistant foam, o Use water spray to cool fire-o		-	l spray.		
	Unsuit Media:	• •	A solid water stream may be	inefficient.				
5.2	Flamm Hazard	-	dNo data available.					
			No data available.					
	Flash I		No data. LEL: No data. UEL: No data.					
	-	ive Limits:		UEL. NO U	did.			
Autoignition Pt: No data.   5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure equivalent), and full protective gear to prevent contact with skin					-			
			Section 6. Accider	ntal Release I	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	-	nmental	Take steps to avoid release					
6.3	Metho	ds and Material Fo	r Contain spill and collect, as ngTransfer to a chemical waste		sal in accordance	e with local regulations.		
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		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	ken Keep container tightly closed.					
	in Storing: Store in accordance with information listed on the product insert.						
	Sect	ion 8. Exposure Controls/Personal Protection					
8.1	Exposure Parameters:						
8.2	Exposure Controls:						
8.2.1	Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne					
	(Ventilation etc.):	levels below recommended exposure limits.					
8.2.2	Personal protection equip	oment:					
	Eye Protection:	Safety glasses					
	Protective Gloves:	Compatible chemical-resistant gloves					
	Other Protective Clothing:	:Lab coat					
	<b>Respiratory Equipment</b>	NIOSH approved respirator, as conditions warrant.					
	(Specify Type):						
	Work/Hygienic/Maintenan	Work/Hygienic/Maintenan Do not take internally.					
<b>ce Practices:</b> Facilities storing or utilizing this material should be equipped with an eyewast							
	Wash thoroughly after handling.						
No data available.							
	Se	ection 9. Physical and Chemical Properties					
9.1	Information on Basic Phys	ical and Chemical Properties					
	Physical States:	[]Gas []Liquid [X]Solid					
	Appearance and Odor:	A 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	mm No data.					
	Hg):						
	Vapor Density (vs. Air = 1)	: No data.					
	Specific Gravity (Water = 2	1): No data.					
	Solubility in Water:	No data.					
Solubility Notes: ~0.5 mg/ml in PBS (pH 7.2); ~0.3 mg/ml in EtOH; ~20 mg/ml in DMSO; ~25 mg/m							
	Octanol/Water Partition Coefficient:	No data.					

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	Autoign	ition Pt:		No data.						
	Decomp	osition Temperat	ure:	No data.						
	Viscosit			No data.						
9.2	Other Inf	ormation								
	Percent	Volatile:		No data.						
	Molecul	ar Formula & Weig	ght:	C37H49N7O9S	767.9					
			S	Section 10. S	Stability and	Reactiv	vitv			
0.1	Reactivi	ty:		ta available.	y		<u> </u>			
0.2	-									
0.3	Stability	Note(s):	Stable	e if stored in accore	dance with informa	tion listed o	on the product	insert.		
	Polymer	ization:								
10.4	Conditio	ons To Avoid:	No da	ta available.						
10.5	Incompa	atibility - Materials	strong	acids						
	To Avoi	d:	strong	bases						
10.6	Hazardo	us	carbo	n dioxide						
	Decomp	osition or	carbo	n monoxide						
	Byprodu	icts:	-	en oxides						
			sulfur	oxides						
			Se	ection 11. To	oxicological	Informa	ation			
1.1	Informat	tion on	The toxicological effects of this product have not been thoroughly studied.							
	Toxicolo	ogical Effects:			Data: Subcutaneou					
	Intraperitoneal LD (rat): >1 gm/kg; Subcutaneous LD50 (rat): >300									
				-	D50 (mouse): >1 g	m/kg; Subc	cutaneous LD5	50 (mouse): >1	gm/kg;	
	Chronic Toxicological Pentagastrin -				-		(D.T.E.			
	Effects:		Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information.							
				•	umber: AY2970000					
CAS	#	Hazardous Com		ts (Chemical Nan		NTP	IARC	ACGIH	OSHA	
	<i></i> 4-95-2	pentagastrin				n.a.	n.a.	n.a.	n.a.	
		1		Section 12	Ecological In	formati	ion			
12.1	Toxicity			release into the e	Ecological Ir	IIUIIIal				
12.1	TOXICITY	•			or dilution water ma	av cause no	allution			
12.2	Persiste	noo and		ta available.		ay cause pr				
12.2	Degrada		no ua	la avallable.						
122	-	-	No do	ta available.						
12.3	Bioaccumulative Potential:		NO Ga	la avallable.						
40.4			No do	te evellekte						
12.4	•			ta available.						
12.5	Results of PBT and vPvB No assessment:		No da	ita avaliadie.						
12.6		lverse effects:	No da	ita available.						
12.0	other at									



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# CHIMICAL									
		Section 13. Dispos	al Considerat	ions					
3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.									
	Section 14. Transport Information								
14.1 LAND TI	4.1 LAND TRANSPORT (US DOT):								
DOT Proper	Shipping Name	Not dangerous goods.							
DOT Hazaro									
UN/NA Number:									
	-	opean ADR/RID):							
UN Number	hipping Name:	Not dangerous goods.							
Hazard Clas									
14.3 AIR TRA	NSPORT (ICAO/	IATA):							
ICAO/IATA	Shipping Name:	Not dangerous goods.							
UN Number			Packing Grou	ıp:					
Hazard Clas									
Additional Trar	isport	Transport in accordance with loo	cal, state, and federa	regulations.					
		Continu 15 Dogui		l'an					
		Section 15. Regul	•	lion					
· · · · ·	- -	nents and Reauthorization Act o	-						
CAS #		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)				
5534-95-2	pentagastrin		No	No	No				
CAS #		ponents (Chemical Name)	Other US EPA or S						
5534-95-2	pentagastrin	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No							
Regulatory Info	rmation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)							
Statement:		No.1272/2008.							
		Section 16. Oth	er Information	า					
Revision Date:		11/02/2019							
Additional Infor	mation About	No data available.							
This Product:									
Company Polic	y 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.							

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