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		Section 1. Iu	lentification of the Substan		the company/o	nucitating
.1	Produc	t Code:	24543			
	Produc	t Name:	Neuromedin B			
	Synony	ms:	•••••	ucyl-L-tryptophyl-L-a	alanyl-L-threonylgl	ycyl-L-histidyl-L-phenylalanyl-
			ethioninamide; NMB;			
2	Relevar	nt identified uses of	the substance or mixture a	nd uses advised a	igainst:	
	<b>Relevant identified uses:</b> For research use only, not for human or veterinary use.					
1.3	Details	of the Supplier of th	e Safety Data Sheet:			
	Comp	any Name:	Cayman Chemical Compa	any		
			1180 E. Ellsworth Rd. Ann Arbor, MI 48108			
	Web s	site address:	www.caymanchem.com			
		nation:	Cayman Chemical Compa	anv	+1 (73	4)971-3335
.4		ency telephone num				.)
••	-	gency Contact:	CHEMTREC Within USA	and Canada:	+1 (80	0)424-9300
			CHEMTREC Outside US	A and Canada:	-	3)527-3887
			Section 2. Haz	zards Identifi	cation	
.1	Classifi	cation of the Substa	nce or Mixture:			
		cation of the Substa lements:	nce or Mixture:			
	Label E	lements:				
	Label E GHS \$	lements: Signal Word:	nce or Mixture: None			
	Label E GHS S GHS I	lements: Signal Word: Hazard Phrases:	None	stance or mixture is	not classifiable ad	cordina to GHS.
	Label E GHS S GHS B Based	<b>lements:</b> Signal Word: Hazard Phrases: d on evaluation of curr	<b>None</b> rently available data this subs	stance or mixture is	not classifiable ad	cording to GHS.
	Label E GHS S GHS B Based GHS	lements: Signal Word: Hazard Phrases: d on evaluation of curr Precaution Phrases:	<b>None</b> rently available data this subs	stance or mixture is	not classifiable ac	cording to GHS.
	Label E GHS S GHS Based GHS No ph	lements: Signal Word: Hazard Phrases: d on evaluation of curr Precaution Phrases: rases apply.	<b>None</b> rently available data this subs	stance or mixture is	not classifiable ad	cording to GHS.
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2 3	Label E GHS S GHS B Based GHS B No ph GHS S Pleas Advers Effects	lements: Signal Word: Hazard Phrases: d on evaluation of curr Precaution Phrases: arases apply. Response Phrases: arases apply. Storage and Disposa e refer to Section 7 for se Human Health	None rently available data this subs al Phrases: r Storage and Section 13 for Material may be irritating to th May be harmful by inhalation, May cause eye, skin, or respi To the best of our knowledge. on 3. Composition/ nents (Chemical Name)/	Disposal information ne mucous membra , ingestion, or skin a ratory system irritat , the toxicological p	on. Ines and upper res absorption. tion. roperties have not	spiratory tract. t been thoroughly investigated
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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:	g A solid water stream may be inefficient.
5.2	Flammable Properties ar Hazards:	IdNo 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 Instruction	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		r Contain spill and collect, as appropriate.
	Up:	ngTransfer to a chemical waste container for disposal in accordance with local regulations.
	ор.	
		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	Precautions To Be Taker	n 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:	

Multi-region format



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<ul> <li>a.2.1 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airborn (Ventilation etc.): levels below recommended exposure limits.</li> <li>a.2.2 Personal protection equipment:</li> <li>Eye Protection Safety glasses</li> <li>Protective Gloves: Compabile chemical-resistant gloves</li> <li>Other Protective Clothing:Lab coat</li> <li>Respiratory Equipment NUOSH approved respirator, as conditions warrant. (Specify Type):</li> <li>Work/Hygienic/Maintenan Do not take internally.</li> <li>ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash and a safety show Wash thoroughly after handling. No data available.</li> <li>Section 9. Physical and Chemical Properties</li> <li>Physical States: [] Gas [] Liquid [X] Solid</li> <li>Appearance and Odor: A lyophilized powder</li> <li>pH: No data.</li> <li>Boiling Point: No data.</li> <li>Flash Pt: No data.</li> <li>Explosity (us. Air er I): No data.</li> <li>Vapor Pressure (vs. Air or mm No data.</li> <li>Solubility in Water: -1 mg/ml</li> <li>Cetano/Water Partition No data.</li> <li>Solubility in Water: -1 mg/ml</li> <li>Cetano/Water Partition No data.</li> <li>Vapor Density (vs. Air er 1): No data.</li> <li>Solubility in Water: -1 mg/ml</li> <li>Cetano/Water Partition No data.</li> <li>Viscosity: No data.</li> <li>Viscosity: No data.</li> </ul>	cu/							
(Ventilation etc.):       levels 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         Respiratory Equipment       NIOSH approved respirator, as conditions warrant.         (Specify Type):       Work/Hygienic/Maintenan Do not take internally.         ce       Facilities storing or utilizing this material should be equipped with an eyewash and a safety show Wash thoroughly after handling.         No data available.       Section 9. Physical and Chemical Properties         Physical States:       []Gas         pH:       No data.         Metting Point:       No data.         Boiling Point:       No data.         Flash Pt:       No data.         Explosive Limits:       LEL: No data.         Vapor Pressure (vs. Air or mm       No data.         Specific Gravity (Water = 1):       No data.         Solubility in Water:       - 1 mg/mil         Octano/Water Partition       No data.<	8.2	Exposure Controls:						
<ul> <li>8.2.2 Personal protection equipment:</li> <li>Eye Protection: Safety glasses</li> <li>Protective Gloves: Compatible chemical-resistant gloves</li> <li>Other Protective Clothing:Lab coat</li> <li>Respiratory Equipment NIOSH approved respirator, as conditions warrant.</li> <li>(Specify Type):</li> <li>Work/Hygleinic/Maintean Do not take internally.</li> <li>ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash and a safety show Wash thoroughly after handling. No data available.</li> <li>Section 9. Physical and Chemical Properties</li> <li>Physical States: []Gas []Liquid [X]Solid</li> <li>Appearance and Odor: A lyophilized powder</li> <li>pH: No data.</li> <li>Boiling Point: No data.</li> <li>Flash Pt: No data.</li> <li>Flash Pt: No data.</li> <li>Flamability (solid, gas): No data.</li> <li>Specific Gravity (Water = 1): No data.</li> <li>Cotano(Water Partition No data.</li> <li>Cotano(Water Partition No data.</li> <li>Costino(Water Partition No data.</li> <li>Vator Density (vs. Air = 1): No data.</li> <li>Specific Gravity (Water = 1): No data.</li> <li>Specific Gravity (Water = 1): No data.</li> <li>Costino(Water Partition No data.</li> <li>Costino(Fartity (Water = 1): No data.</li> <li>Costino(Fartity (Water =</li></ul>								
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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.         ce Practices:       Facilities storing or utilizing this material should be equipped with an eyewash and a safety shown Wash thoroughly after handling. No data available.         Section 9. Physical and Chemical Properties         Physical States:       [] Gas         Physical States:       [] Gas         Physical States:       [] Gas         Physical Physical and Chemical Properties         Physical States:       [] Gas         Physical States:       [] Gas         Physical States:       [] Gas         Physical States:       [] Satial         No data.       [] Kandana         Boiling Point:       No data.         Boiling Point:       No data.         Explosive Limits:       LEL: No data.         UEL: No data.       UEL: No data.         Vapor Density (vs. Air or mm       No data.         Specific Gravity (Water = 1):       No data.         Solubility in Water:       -1 mg/ml         Octano/Water Paritition       No data. <td>8.2.2</td> <td colspan="6">2.2 Personal protection equipment:</td>	8.2.2	2.2 Personal protection equipment:						
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Physical States:       []Gas       [Liquid       [X]Solid         Appearance and Odor:       A lyophilized powder         pH:       No data.         Melting Point:       No data.         Boiling Point:       No data.         Boiling Point:       No data.         Flash Pt:       No data.         Flash Pt:       No data.         Flammability (solid, gas):       No data.         Flammability (solid, gas):       No data.         Flammability (solid, gas):       No data.         Vapor Pressure (vs. Air or mm       No data.         Hg):       Vapor Density (vs. Air = 1):       No data.         Vapor Density (vs. Air = 1):       No data.         Solubility in Water:       ~ 1 mg/ml         Octanol/Water Partition       No data.         Coefficient:       No data.         Autoignition Pt:       No data.         Viscosity:       No data.         920       Chter Information         Percent Volatile:       No data.		Se	ction 9. Physical and Chemical Properties					
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Flash Pt:       No data.         Flash Pt:       No data.         Evaporation Rate:       No data.         Flammability (solid, gas):       No data available.         Explosive Limits:       LEL: No data.         Vapor Pressure (vs. Air or mm       No data.         Hg):       Vapor Density (vs. Air = 1):         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:       No data.         Autoignition Pt:       No data.         Viscosity:       No data.         Viscosity:       No data.         920       Other Information         Percent Volatile:       No data.		Melting Point:	No data.					
Fvaporation Rate:       No data.         Flammability (solid, gas):       No data available.         Explosive Limits:       LEL: No data.         Vapor Pressure (vs. Air or mm       No data.         Hg):       No data.         Yapor Density (vs. Air = 1):       No data.         Specific Gravity (Water = 1):       No data.         Solubility in Water:       No data.         Octanol/Water Partition       No data.         Coefficient:       No data.         Autoignition Pt:       No data.         No data.       No data.         Viscosity:       No data.         Viscosity:       No data.         Viscosity:       No data.         Premet Volatile:       No data.		Boiling Point:	No data.					
Flammability (solid, gas):       No data available.         Explosive Limits:       LEL: No data.         Vapor Pressure (vs. Air or mm       No data.         Hg):       No data.         Yapor Density (vs. Air = 1):       No data.         Specific Gravity (Water = 1):       No data.         Solubility in Water:       ~ 1 mg/ml         Octanol/Water Partition       No data.         Coefficient:       No data.         Autoignition Pt:       No data.         Decomposition Temperature:       No data.         Viscosity:       No data.         9.2       Other Information         Percent Volatile:       No data.		Flash Pt:	No data.					
Explosive Limits:       LEL: No data.       UEL: No data.         Vapor Pressure (vs. Air or mm       No data.         Hg):       No data.         Yapor Density (vs. Air = 1):       No data.         Specific Gravity (Water = 1):       No data.         Solubility in Water:       ~1 mg/ml         Octanol/Water Partition       No data.         Coefficient:       No data.         Autoignition Pt:       No data.         Decomposition Temperature:       No data.         Viscosity:       No data.         9.2       Other Information         Percent Volatile:       No data.		Evaporation Rate:	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:       ~ 1 mg/ml         Octanol/Water Partition       No data.         Coefficient:       No data.         Autoignition Pt:       No data.         Decomposition Temperature:       No data.         Viscosity:       No data.         9.2       Other Information         Percent Volatile:       No data.		Flammability (solid, gas):	No data available.					
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:       No data.         Autoignition Pt:       No data.         Decomposition Temperature:       No data.         Viscosity:       No data.         9.2       Other Information         Percent Volatile:       No data.		Explosive Limits:	LEL: No data. UEL: No data.					
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:       No data.         Autoignition Pt:       No data.         Decomposition Temperature:       No data.         Viscosity:       No data.         9.2       Other Information         Percent Volatile:       No data.		Vapor Pressure (vs. Air or r	mm No data.					
Specific Gravity (Water = 1):       No data.         Solubility in Water:       ~ 1 mg/ml         Octanol/Water Partition       No data.         Coefficient:       No data.         Autoignition Pt:       No data.         Decomposition Temperature:       No data.         Viscosity:       No data.         9.2       Other Information         Percent Volatile:       No data.		Hg):						
Solubility in Water:       ~ 1 mg/ml         Octanol/Water Partition       No data.         Coefficient:       No data.         Autoignition Pt:       No data.         Decomposition Temperature:       No data.         Viscosity:       No data.         9.2       Other Information         Percent Volatile:       No data.		Vapor Density (vs. Air = 1):	No data.					
Octanol/Water Partition       No data.         Coefficient:       No data.         Autoignition Pt:       No data.         Decomposition Temperature:       No data.         Viscosity:       No data.         9.2       Other Information         Percent Volatile:       No data.		Specific Gravity (Water = 1)	): No data.					
Coefficient:       Autoignition Pt:       No data.         Autoignition Temperature:       No data.         Viscosity:       No data.         9.2       Other Information         Percent Volatile:       No data.		Solubility in Water:	~ 1 mg/ml					
Autoignition Pt:No data.Decomposition Temperature:No data.Viscosity:No data.9.2Other Information Percent Volatile:No data.		Octanol/Water Partition	No data.					
Decomposition Temperature:       No data.         Viscosity:       No data.         9.2       Other Information         Percent Volatile:       No data.		Coefficient:						
Viscosity:     No data.       9.2     Other Information       Percent Volatile:     No data.		Autoignition Pt:	No data.					
9.2 Other Information Percent Volatile: No data.		Decomposition Temperatur	re: No data.					
Percent Volatile: No data.		Viscosity:	No data.					
	9.2	Other Information						
Molecular Formula & Weight: C52H73N15O12S 1132.3		Percent Volatile:	No data.					
		Molecular Formula & Weigh	nt: C52H73N15O12S 1132.3					



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	******		Section 10. Stability	and Reactiv	itv			
10.1	Reactivit	łv:	No data available.		· • J			
10.2	Stability	-	Unstable [ ] Stable [ X ]					
10.3	Stability		Stable if stored in accordance with in	oformation listed or	the product	insort		
10.5	Polymer		Will occur [ ] Will not occur [ X					
10.4	-	ns To Avoid:	No data available.	]				
10.4								
10.5	=	tibility - Materials	-					
			strong bases					
10.6	Hazardo		carbon dioxide					
	-	osition or	carbon monoxide					
	Byprodu	icts:	nitrogen oxides sulfur oxides					
			Section 11. Toxicolog					
11.1	Informat		The toxicological effects of this prod	uct have not been	thoroughly st	udied.		
		gical Effects:						
		Toxicological	Brain Natriuretic Peptide (1-32) - Inv	-	-	-		
	Effects:		Only select Registry of Toxic Effects See actual entry in RTECS for comp		tances (RTE	5) data is pre	sented here.	
			Brain Natriuretic Peptide (1-32) RTE		34000			
CAS	4	Hazardous Com	ponents (Chemical Name)	NTP		ACGIH	OSHA	
<u> </u>	- 96-84-2	Neuromedin B	ponents (onemical Name)		_		_	
0708	0-04-2	Neuromean B		n.a.	n.a.	n.a.	n.a.	
			Section 12. Ecologic	cal Information	on			
12.1	Toxicity:	:	Avoid release into the environment.					
			Runoff from fire control or dilution wa	ater may cause po	llution.			
12.2	Persiste	nce and	No data available.					
	Degrada	bility:						
12.3	Bioaccu	mulative	No data available.					
	Potentia	l:						
12.4	Mobility	in Soil:	No data available.					
12.5	Results	of PBT and vPvB	No data available.					
	assessm	nent:						
12.6	Other ad	verse effects:	No data available.					
			Section 13. Disposal	Consideratio	ons			
13.1	Waste D	isposal Method:	Dispose in accordance with local, st	ate, and federal reg	gulations.			
13.1	Waste D	isposar metriou.			gulations.			
						-	lulti-rogion form	

Multi-region format

# Cayman

## SAFETY DATA SHEET Neuromedin B

Multi-region format

Revision: 03/11/2018

Section 14. Transport Information							
14.1 LAND TRANSPORT (US DOT):							
	r Shipping Name:	-					
DOT Hazar							
UN/NA Nur	UN/NA Number:						
14.1 LAND T	RANSPORT (Euro	opean ADR/RID):					
ADR/RID S	hipping Name:	Not dangerous goods.					
UN Numbe	r:						
Hazard Cla							
	ANSPORT (ICAO/I	-					
	Shipping Name:	Not dangerous goods.					
Additional Trai	nsport	Transport in accordance with lo	cal, state, and federa	I regulations.			
Information:		Oration 45 Daniel	- ( ) - (	('			
		Section 15. Regul	•	tion			
-	1	nents and Reauthorization Act o	-	0.00/20			
CAS #		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
87096-84-2	Neuromedin B		No	No	No		
CAS #		ponents (Chemical Name)	Other US EPA or				
87096-84-2	Neuromedin B		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulatory Info	ormation	This SDS was prepared in acco	rdance with 29 CFR	1910.1200 and Regul	ation (EC)		
Statement:		No.1272/2008.					
		Section 16. Oth	er Informatio	n			
Revision Date:		03/11/2018					
Additional Info	rmation 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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