

Page: 1 of 5

				co/Mixturo and of		ndartaking	
		Section 1. I	dentification of the Substar		the Company/U	ndenaking	
.1	Product Code: 24221		24221				
	Product	Name:	Neurokinin A				
	Synony	ms:	L-histidyl-L-lysyl-L-threor	yl-Lalphaasparty	I-L-seryI-L-phenyl	alanyl-L-valylglycyl-L-leucyl-L-	
	hioninamide; Neurokinin .alpha.; Neuromedin L; Substance K;						
.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:						
			Cayman Chemical Comp	any			
			1180 E. Ellsworth Rd.				
			Ann Arbor, MI 48108				
		ite address:	www.caymanchem.com		. 4 (70	4)074 0005	
	Inform		Cayman Chemical Comp	bany	+1 (73	4)971-3335	
1.4	-	ncy telephone num			4 (00		
	Emergency Contact:					00)424-9300	
	-	,,		A and Canada			
	_	,,	CHEMTREC Outside US		+1 (70	3)527-3887	
		,,			+1 (70		
2.1	Classifi	cation of the Subst	CHEMTREC Outside US Section 2. Haz		+1 (70		
		-	CHEMTREC Outside US Section 2. Haz		+1 (70		
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	Label El GHS S	cation of the Subst	CHEMTREC Outside US Section 2. Haz ance or Mixture:		+1 (70		
	Label El GHS S GHS H	cation of the Subst lements: Signal Word: Hazard Phrases:	CHEMTREC Outside US Section 2. Haz ance or Mixture:	zards Identifi	+1 (70	3)527-3887	
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2.2 2.3 CAS RTE	Label El GHS S GHS H Based GHS F No phi GHS S Please Advers Effects	cation of the Substi- lements: Bignal Word: Hazard Phrases: I on evaluation of cur Precaution Phrases rases apply. Response Phrases: rases apply. Storage and Dispos e refer to Section 7 for e Human Health and Symptoms: Secti Hazardous Compo	CHEMTREC Outside US Section 2. Haz ance or Mixture: None Trently available data this sub- Trently a	zards Identifie stance or mixture is Disposal information he mucous membra , ingestion, or skin a iratory system irritat e, the toxicological p /Information	+1 (70 Cation not classifiable ac n. nes and upper res absorption. ion. roperties have not on Ingredie EC No./	3)527-3887 cording to GHS. spiratory tract.	

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 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 Precautions:	Take steps to avoid release into the environment, if safe to do so.
6.3	Methods and Material Fo	r Contain spill and collect, as appropriate.
	Containment and Cleanin	ngTransfer to a chemical waste container for disposal in accordance with local regulations.
	Up:	
		Section 7. Handling and Storage
7.1	Precautions To Be Taker	n 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



8.2	Exposure Controls:					
8.2.1	Engineering Controls	process enclosures, local exhaust ventilation, or other engineering controls to control airborne				
	levels below recommended exposure limits.					
8.2.2	Personal protection equipment:					
	Eye Protection:	glasses				
	Protective Gloves: Compatible chemical-resistant gloves					
	Other Protective Clothing:Lab coat					
	Respiratory Equipment	H 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 showe				
		Wash thoroughly after handling.				
	I	No data available.				
	Section 9. Physical and Chemical Properties					
9.1		cal and Chemical Properties				
0.1	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:	~ 1 mg/ml				
	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	ht: C50H80N14O14S 1133.3				



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0.1 0.2 0.3			Section 10. Stability a	and Reactiv	vity				
	Reactivity: No data available.								
0.3	Stability: Unstable [] Stable [X]								
	Stability	Note(s):	Stable if stored in accordance with information listed on the product insert.						
	Polymer	ization:	Will occur [] Will not occur [X]						
0.4	Conditio	ons To Avoid:	No data available.						
0.5	Incompa	atibility - Materials	strong acids						
	To Avoid	d:	strong bases						
0.6	Hazardous Decomposition or		carbon dioxide						
			carbon monoxide						
	Byprodu	icts:	nitrogen oxides						
			sulfur oxides						
			Section 11. Toxicologi	cal Informa	ation				
1.1	Informat	tion on	The toxicological effects of this produ	ict have not beer	n thoroughly st	udied.			
	Toxicolo	ogical Effects:							
CAS #	ŧ	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
8693	3-74-6	Neurokinin		n.a.	n.a.	n.a.	n.a.		
		ł	Section 12. Ecologic	al Informati	 i∩n				
2.1	Toxicity		Avoid release into the environment.						
2.1	TOXICITY	•	Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.						
2.2	Persiste	nce and	No data available.						
2.2		lice allu	no uala avaliable.						
		bility							
1.2.2	-	ibility:	No data available						
2.3	Bioaccu	mulative	No data available.						
	Bioaccu Potentia	mulative I:							
2.4	Bioaccu Potentia Mobility	mulative I: in Soil:	No data available.						
	Bioaccu Potentia Mobility Results	mulative I: in Soil: of PBT and vPvB							
2.4 2.5	Bioaccu Potentia Mobility Results assessm	mulative I: in Soil: of PBT and vPvB nent:	No data available. No data available.						
2.4	Bioaccu Potentia Mobility Results assessm	mulative I: in Soil: of PBT and vPvB	No data available. No data available. No data available.						
2.4 2.5	Bioaccu Potentia Mobility Results assessm	mulative I: in Soil: of PBT and vPvB nent:	No data available. No data available.	Considerati	ions				
2.4 2.5	Bioaccu Potentia Mobility Results assessm Other ad	mulative I: in Soil: of PBT and vPvB nent:	No data available. No data available. No data available.						
2.4 2.5 2.6	Bioaccu Potentia Mobility Results assessm Other ad	mulative I: in Soil: of PBT and vPvB nent: Iverse effects:	No data available. No data available. No data available. Section 13. Disposal (te, and federal re	egulations.				
2.4 2.5 2.6	Bioaccu Potentia Mobility Results assessm Other ad	mulative I: in Soil: of PBT and vPvB nent: Iverse effects:	No data available. No data available. No data available. Section 13. Disposal (Dispose in accordance with local, state Section 14. Transport	te, and federal re	egulations.				
2.4 2.5 2.6 3.1	Bioaccu Potentia Mobility Results assessm Other ad Waste D	mulative I: in Soil: of PBT and vPvB nent: Iverse effects: isposal Method:	No data available. No data available. No data available. Section 13. Disposal (Dispose in accordance with local, sta Section 14. Transpo	te, and federal re	egulations.				
2.4 2.5 3.1 14.1 DC	Bioaccu Potentia Mobility Results assessm Other ad Waste D	mulative I: in Soil: of PBT and vPvB nent: Iverse effects: isposal Method: RANSPORT (US I r Shipping Name:	No data available. No data available. No data available. Section 13. Disposal (Dispose in accordance with local, sta Section 14. Transpo	te, and federal re	egulations.				
2.4 2.5 3.1 14.1 DC	Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T	mulative I: in Soil: of PBT and vPvB nent: Iverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class:	No data available. No data available. No data available. Section 13. Disposal (Dispose in accordance with local, sta Section 14. Transpo	te, and federal re	egulations.				
2.4 2.5 3.1 14.1 DC	Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T DT Prope DT Hazard	mulative I: in Soil: of PBT and vPvB nent: Iverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class:	No data available. No data available. No data available. Section 13. Disposal (Dispose in accordance with local, sta Section 14. Transpo DOT): Not dangerous goods.	te, and federal re	egulations.				
2.4 2.5 3.1 14.1 DC UN 14.1	Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T DT Prope DT Hazard V/NA Nun LAND T	mulative I: in Soil: of PBT and vPvB nent: Iverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: nber:	No data available. No data available. No data available. Section 13. Disposal (Dispose in accordance with local, sta Section 14. Transpo DOT): Not dangerous goods.	te, and federal re	egulations.				
2.4 2.5 3.1 14.1 DC UN 14.1 AC	Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T DT Prope DT Hazard V/NA Nun LAND T	mulative I: in Soil: of PBT and vPvB nent: Iverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: nber: RANSPORT (Euro hipping Name:	No data available. No data available. No data available. Section 13. Disposal (Dispose in accordance with local, sta Section 14. Transpo DOT): Not dangerous goods.	te, and federal re	egulations.				

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Cayman	

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

e: Not dangerous goods.

Additional Transport Information:

Section 15. Regulatory Information

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

CAS #	Hazardous Components (Chemical Name)		S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
86933-74-6	Neurokinin		No	No	No	
CAS #	Hazardous Components (Chemical Name)		Other US EPA or State Lists			
86933-74-6	Neurokinin		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Inf Statement:	ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.				
		Section 16. Oth	ner Informatio	on		
Revision Date:	:	01/21/2018				
Additional Information About This Product:		No data available.				
		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.				