

## SAFETY DATA SHEET

Acetyl .beta.-Endorphin (human) (trifluoroacetate

salt)

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008							
		Section 1. Ide	entification of the Substan	ce/Mixture and of t	he Company/Ur	ndertaking	
1.1	Product Product Synony	Name: ns:	24953 Acetyl .betaEndorphin ( N-acetyl .betaendorphir	);			
1.2			he substance or mixture a	-	-		
	Releva	Int identified uses:	For research use only, no	ot for human or veteri	inary use.		
1.3	Compa	any Name:	e Safety Data Sheet: Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	any			
	Inform	ite address:	www.caymanchem.com Cayman Chemical Comp	201/	±1 (73)	4)971-3335	
1.4		ncy telephone numb		any	+1 (75-	+/97 1-0000	
1.4	-	ency Contact:	CHEMTREC Within USA CHEMTREC Outside US		-	0)424-9300 3)527-3887	
			Section 2. Haz	zards Identific	ation		
2.1 2.2							
2.3	GHS F Based GHS F No phi GHS F No phi GHS S Please Advers	Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposa e refer to Section 7 for e Human Health M and Symptoms: M T	Storage and Section 13 for Naterial may be irritating to th Nay be harmful by inhalation Nay cause eye, skin, or resp	Disposal information he mucous membran , ingestion, or skin ab iratory system irritation , the toxicological pro	n. bes and upper res bsorption. on. operties have not	piratory tract. been thoroughly investigated.	
	<i>#1</i>		-	1			
CAS RTE	cs #	REACH Registratio	nents (Chemical Name)/ n No.	Concentration	EC No./ EC Index No.	GHS Classification	
NA NA		Acetyl .betaEndorphin salt)	n (human) (trifluoroacetate	100.0 %	NA NA	No data available.	



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Revision: 04/29/2018

		Section 4. First Aid Measures				
4.1	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	dNo data available.				
	Hazards:					
		No data available.				
	Flash Pt:	No data.				
	Explosive Limits:	LEL: No data. UEL: No data.				
	Autoignition Pt:	No data.				
5.3	Fire Fighting Instructions	: 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.				
		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 Cleaning Transfer to a chemical waste container for disposal in accordance with local regulation						
	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:					

Multi-region format



## **SAFETY DATA SHEET** Acetyl .beta.-Endorphin (human) (trifluoroacetate

-un	man	Revision: 04/29/2018 salt)					
8.2	Exposure Controls:	5					
8.2.1	•	e process enclosures, local exhaust ventilation, or other engineering controls to control airborne					
		els below recommended exposure limits.					
3.2.2	Personal protection equipment:						
		fety glasses					
	-	mpatible chemical-resistant gloves					
	Other Protective Clothing:Lab coat						
	-	OSH approved respirator, as conditions warrant.					
	(Specify Type):						
	Work/Hygienic/Maintenan Do	not take internally.					
		cilities storing or utilizing this material should be equipped with an eyewash and a safety showe					
		Wash thoroughly after handling.					
	No	data available.					
	Sect	tion 9. Physical and Chemical Properties					
.1	Information on Basic Physica						
	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 mi	n No data.					
	Hg):						
	Vapor Density (vs. Air = 1):	No data.					
	Specific Gravity (Water = 1):	No data.					
	Solubility in Water:	~ 1 mg/ml					
	<b>Octanol/Water Partition</b>	No data.					
	Coefficient:						
	Autoignition Pt:	No data.					
	Decomposition Temperature:	No data.					
	Viscosity:	No data.					
.2	Other Information						
	Percent Volatile:	No data.					
	Molecular Formula & Weight:	C160H253N39O47S • XCF3COOH 3507.0					

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Carrow
Cayman

#### SAFETY DATA SHEET Acetvl .beta.-Endorphin (human) (trifluoroacetate

Page: 4 of 5

10.5       Incompatibility - Materials No data available. To Avoid:         10.6       Hazardous       No data available. Decomposition or Byproducts:         Section 11. Toxicological Information         Information on Toxicological Effects:         CAS #       Hazardous Components (Chemical Name)       NTP       IARC       ACGIH       Information         NA       Acetyl.betaEndorphin (human) (trifluoroacetate salt)       n.a.       n.a.       n.a.       Information         Information 12. Ecological Information         Information fire control or dilution water may cause pollution.         Runoff from fire control or dilution water may cause pollution.         Isoaccumulative         No data available.         Degradability:         Isoaccumulative       No data available.         Isoection 13. Disposal Considerations         Isoection 14. Transport Information         Isoection 14. Transport Information         Isoection 14. Transp	.ay	<u>men</u>		salt)				sion: 04/29/20	
10.2       Stability:       Unstable [1]       Stable [X]         10.3       Stability Note(5):       Stable if stored in accordance with information listed on the product insert.         Polymerization:       Will occur [1]       Will not occur [X]         10.4       Conditions To Avoid:       No data available.         10.5       Incompatibility - Materials No data available.       To Avoid:         10.6       Hazardous       No data available.         Decomposition or       Byproducts:       Section 11. Toxicological Information         Information on The toxicological effects of this product have not been thoroughly studied.         Toxicological Effects:         CAS # Hazardous Components (Chemical Name)       NTP       IARC       ACGIH         NA Acetyl.betaEndorphin (human) (trifluoroacetate salt)       n.a.       n.a.       n.a.         Rection 12. Ecological Information         Interview of Person No data available.         Degradability:         Section 13. Disposal Considerations         Ist of PBT and vPvB No data available.         Degradability in Soil: No data available.         Section 13. Disposal Considerations         Ist And Verse effects: No data available.				Section 10. Stability and	d Reactiv	vity			
<ul> <li>0.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert. Polymerization: Will occur [ ] Will not occur [ X ] </li> <li>0.4 Conditions To Avoid: No data available. <ul> <li>0.5 Incompatibility - Materials No data available.</li> <li>0.6 Hazardous No data available.</li> <li>Decomposition or Byproducts:</li> </ul> </li> <li>1.1 Information on The toxicological effects of this product have not been thoroughly studied. To Avoid: <ul> <li>0.4 Coold iteration on Toxicological effects of this product have not been thoroughly studied.</li> <li>Toxicological effects:</li> </ul> </li> <li>CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH <ul> <li>NA Acetyl.betaEndorphin (human) (trifluoroacetate salt) n.a. n.a. n.a.</li> <li>n.a. n.a.</li> <li>n.a.</li> <li>n.a.</li> <li>n.a.</li> <li>n.a.</li> <li>n.a.</li> <li>n.a.</li> <li>n.a.</li> </ul> </li> <li>2.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.</li> <li>2.2 Persistence and No data available. Degradability: <ul> <li>2.3 Bioaccumulative No data available.</li> <li>2.4 Mobility in Soil: No data available.</li> <li>2.5 Results of PBT and VPVB No data available.</li> <li>2.6 Other adverse effects: No data available.</li> <li>3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.</li> <li>3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.</li> <li>3.1 Waste Disposal Atternet: Not dangerous goods. DOT Hazard Class: UNNA Number:</li> <li>1.4 LAND TRANSPORT (European ADR/RID): ADR/RID Shipping Name: Not dangerous goods. UN Number:</li> </ul></li></ul>	0.1	Reactiv	ity:	No data available.					
Polymerization:       Will occur [ ]       Will not occur [ X ]         10.4       Conditions To Avoid:       No data available.         10.5       Incompatibility - Materials No data available.       To Avoid:         10.6       Hazardous       No data available.         Decomposition or Byproducts:       Section 11. Toxicological Information         11.1       Information on Toxicological Effects:       The toxicological effects of this product have not been thoroughly studied.         CAS #       Hazardous Components (Chemical Name)       NTP       IARC       ACGIH         NA       Acetyl.betaEndorphin (human) (trifluoroacetate salt)       n.a.       n.a.       n.a.         Section 12. Ecological Information         12.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.         Section 13. Disposal Considerations         Section 13. Disposal Considerations         Section 13. Disposal Considerations         Section 14. Transport Information         14.1 LAND TRANSPORT (Us DOT):         Dot Proper Shipping Name: Not dangerous goods.         DOT Hazard Class: UN/NA Number:         Not dangerous goods.         Not dangerous goods. <t< td=""><td>0.2</td><td>Stability</td><td><b>'</b>:</td><td>Unstable [ ] Stable [ X ]</td><td></td><td></td><td></td><td></td></t<>	0.2	Stability	<b>'</b> :	Unstable [ ] Stable [ X ]					
10.4       Conditions To Avoid:       No data available.         10.5       Incompatibility - Materials No data available.       To Avoid:         10.6       Hazardous       No data available.         Decomposition or       Byproducts:       Section 11. Toxicological Information         11.1       Information on       The toxicological effects of this product have not been thoroughly studied.         Toxicological Effects:       CAS #       Hazardous Components (Chemical Name)       NTP       IARC       ACGIH         NA       Acetyl.beta.Endorphin (human) (trifluoroacetate salt)       n.a.       n.a.       n.a.       n.a.         Section 12. Ecological Information         12.1       Toxicity:       Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.       Runoff from fire control or dilution water may cause pollution.         12.2       Persistence and       No data available.       Potential:       Runoff from fire control or dilution water may cause pollution.         12.3       Bioaccumulative       No data available.       Section 13. Disposal Considerations         12.4       Mobility in Soil:       No data available.       Section 14. Transport Information         12.4       Mobility in Soil:       No data available.       Section 13. Disposal Considerations	10.3	Stability	Note(s):	Stable if stored in accordance with inform	nation listed o	on the product	insert.		
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12.3       Bioaccumulative Potential:       No data available.         12.4       Mobility in Soil:       No data available.         12.5       Results of PBT and vPvB       No data available.         12.5       Results of PBT and vPvB       No data available.         12.6       Other adverse effects:       No data available.         12.6       Other adverse effects:       No data available.         12.6       Other adverse effects:       No data available.         13.1       Waste Disposal Method:       Dispose in accordance with local, state, and federal regulations.         14.1       LAND TRANSPORT (US DOT):       DOT Proper Shipping Name:       Not dangerous goods.         DOT Hazard Class:       UN/NA Number:       Not dangerous goods.         14.1       LAND TRANSPORT (European ADR/RID):       ADR/RID Shipping Name:       Not dangerous goods.         UN Number:       Not dangerous goods.       UN dangerous goods.       Not dangerous goods.	12.2	Persiste	ence and	No data available.					
Potential:         12.4       Mobility in Soil:       No data available.         12.5       Results of PBT and vPvB       No data available.         assessment:		Degrada	ability:						
12.4       Mobility in Soil:       No data available.         12.5       Results of PBT and vPvB       No data available.         assessment:	12.3	Bioaccu	Imulative	No data available.					
12.5       Results of PBT and vPvB No data available.         assessment:         12.6       Other adverse effects:         No data available.         Section 13. Disposal Considerations         13.1       Waste Disposal Method:       Dispose in accordance with local, state, and federal regulations.         Section 14. Transport Information         14.1       LAND TRANSPORT (US DOT):         DOT Proper Shipping Name:       Not dangerous goods.         DOT Hazard Class:       UN/NA Number:         14.1       LAND TRANSPORT (European ADR/RID):         ADR/RID Shipping Name:       Not dangerous goods.         UN Number:       Not dangerous goods.		Potentia	al:						
assessment:         12.6       Other adverse effects:       No data available.         Section 13. Disposal Considerations         13.1       Waste Disposal Method:       Dispose in accordance with local, state, and federal regulations.         13.1       Waste Disposal Method:       Dispose in accordance with local, state, and federal regulations.         14.1       LAND TRANSPORT (US DOT):       DOT Proper Shipping Name:       Not dangerous goods.         DOT Hazard Class:       UN/NA Number:       Not dangerous goods.         14.1       LAND TRANSPORT (European ADR/RID):       ADR/RID Shipping Name:       Not dangerous goods.	12.4	Mobility	in Soil:	No data available.					
12.6 Other adverse effects:       No data available.         Section 13. Disposal Considerations         13.1 Waste Disposal Method:       Dispose in accordance with local, state, and federal regulations.         Section 14. Transport Information         14.1 LAND TRANSPORT (US DOT):       DOT Proper Shipping Name:         DOT Proper Shipping Name:       Not dangerous goods.         DOT Hazard Class:       UN/NA Number:         14.1 LAND TRANSPORT (European ADR/RID):       ADR/RID Shipping Name:         Not dangerous goods.       UN Number:	12.5	Results	of PBT and vPvB	No data available.					
Section 13. Disposal Considerations         Section 13. Disposal Considerations         Section 14. Transport Information         14.1 LAND TRANSPORT (US DOT):         DOT Proper Shipping Name:       Not dangerous goods.         DOT Hazard Class:       UN/NA Number:         14.1 LAND TRANSPORT (European ADR/RID):         ADR/RID Shipping Name:       Not dangerous goods.		assessr	nent:						
13.1       Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.         Section 14. Transport Information         14.1       LAND TRANSPORT (US DOT):         DOT Proper Shipping Name:       Not dangerous goods.         DOT Hazard Class:       UN/NA Number:         14.1       LAND TRANSPORT (European ADR/RID):         ADR/RID Shipping Name:       Not dangerous goods.	12.6	Other a	dverse effects:	No data available.					
Section 14. Transport Information         14.1       LAND TRANSPORT (US DOT):         DOT Proper Shipping Name:       Not dangerous goods.         DOT Hazard Class:       UN/NA Number:         14.1       LAND TRANSPORT (European ADR/RID):         ADR/RID Shipping Name:       Not dangerous goods.         UN Number:       Not dangerous goods.				Section 13. Disposal Co	nsiderati	ons			
14.1       LAND TRANSPORT (US DOT):         DOT Proper Shipping Name:       Not dangerous goods.         DOT Hazard Class:       UN/NA Number:         14.1       LAND TRANSPORT (European ADR/RID):         ADR/RID Shipping Name:       Not dangerous goods.         UN Number:	13.1	Waste D	isposal Method:	Dispose in accordance with local, state, a	and federal re	egulations.			
DOT Proper Shipping Name:       Not dangerous goods.         DOT Hazard Class:       UN/NA Number:         14.1       LAND TRANSPORT (European ADR/RID):         ADR/RID Shipping Name:       Not dangerous goods.         UN Number:       Vot dangerous goods.				Section 14. Transport	Informati	ion			
DOT Hazard Class: UN/NA Number: 14.1 LAND TRANSPORT (European ADR/RID): ADR/RID Shipping Name: Not dangerous goods. UN Number:	14.1	LAND 1	RANSPORT (US I	DOT):					
UN/NA Number: 14.1 LAND TRANSPORT (European ADR/RID): ADR/RID Shipping Name: Not dangerous goods. UN Number:	D	OT Prope	er Shipping Name:	Not dangerous goods.					
14.1       LAND TRANSPORT (European ADR/RID):         ADR/RID Shipping Name:       Not dangerous goods.         UN Number:       Not dangerous goods.	D	OT Hazar	d Class:						
ADR/RID Shipping Name:       Not dangerous goods.         UN Number:       Not dangerous goods.	U	JN/NA Nur	mber:						
UN Number:	14.1	LAND 1	RANSPORT (Euro	opean ADR/RID):					
	U			Not dangerous goods.					
Hazard Class:									
	H	lazard Cla	SS:						
								Aulti-region f	

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Cauman
CHIMICAL

### **SAFETY DATA SHEET** Acetyl .beta.-Endorphin (human) (trifluoroacetate

salt)

Revision: 04/29/2018

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)	
NA	Acetyl .betaEnd salt)	orphin (human) (trifluoroacetate	No	No	No	
CAS #	Hazardous Com	ponents (Chemical Name) Other US EPA or State Lists				
NA Acetyl .betaEnc salt)		orphin (human) (trifluoroacetate	e CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory In Statement:	oformation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008. Section 16. Other Information				
		Section 16. Our	ier mormalie	JN		
Revision Date	e:	04/29/2018				
Additional Inf	formation 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.				