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		Section 1. Ide	entification of the Substan	ce/Mixture and of	the Company/U	ndertaking				
1.1	Draduct				and company, c	indontarining				
.1	Product Code:   24552     Product Name:   Obestatin (human)									
	Synony		L-phenylalanyl-L-asparaginyl-L-alanyl-L-prolyl-L-phenylalanyl-Lalphaaspartyl-L-valylglycyl-L							
	Gynony					osyl-L-glutaminyl-L-glutaminyl-l				
			stidyl-L-seryl-L-glutaminy			Soyr E glotarinnyr E glotarinnyr i				
•	Delever	tidentified uses of t		•						
.2			he substance or mixture a		-					
		ant identified uses:	For research use only, no	ot for numan of vete	ennary use.					
1.3	Details of the Supplier of the Safety Data Sheet:									
	Comp	any Name:	Cayman Chemical Comp	bany						
	1180 E. Ellsworth Rd.									
	Wab a	ite eddrees.	Ann Arbor, MI 48108							
		ite address:	www.caymanchem.com		.4 /72	4)074 0005				
	Inform		Cayman Chemical Comp	any	+1 (73	94)971-3335				
.4	-	ncy telephone numb								
	Emerg	ency Contact:	CHEMTREC Within USA			00)424-9300				
			CHEMTREC Outside US	A and Canada:	+1 (70	03)527-3887				
			Section 2. Haz	zards Identifie	cation					
.1	Classifi	cation of the Substa	nce or Mixture:							
.2	Label E	lements:								
	CHS Signal Words Name									
	GHS Signal Word: None									
	GHS Hazard Phrases: Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.									
					not classifiable a					
		Precaution Phrases:								
	-	No phrases apply.								
	GHS Response Phrases:									
	No phrases apply.									
	GHS Storage and Disposal Phrases:									
	Please	e refer to Section 7 for	Storage and Section 13 for	Disposal informatio	n.					
.3	Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract.									
	Effects and Symptoms: May be harmful by inhalation, ingestion, or skin absorption.									
	May cause eye, skin, or respiratory system irritation.									
		Т	o the best of our knowledge	e, the toxicological p	roperties have no	t been thoroughly investigated.				
		Sectio	on 3. Composition	/Information	on Ingredie	nts				
CAS # / Hazardous Components (Chem		nents (Chemical Name)/	Concentration	EC No./	GHS Classification					
	CS#	<b>REACH Registratio</b>			EC Index No.					
KIE(		L-Leucinamide,		100.0 %	NA	No data available.				
	110-72-6	L-phenylalanyl-L-asparaginyl-L-alanyl-L-prolyl-L-phe								
081	110-72-6	L-phenylalanyl-L-aspar	aginyl-L-alanyl-L-prolyl-L-phe		NA					
	110-72-6		aginyl-L-alanyl-L-prolyl-L-phe valylglycyl-L-isoleucyl-L-lysyl		NA					

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 an 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	<b>s:</b> 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.
		hgTransfer to a chemical waste container for disposal in accordance with local regulations.
	Up:	
		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	NKeep 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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Exposure Controls:							
Engineering Controls	process enclosures, local exhaust ventilation, or other engineering controls to control airborne						
(Ventilation etc.):	levels below recommended exposure limits.						
Personal protection equipment:							
Eye Protection:	/ glasses						
Protective Gloves: 0	Compatible chemical-resistant gloves						
Other Protective Clothing:Lab coat							
<b>Respiratory Equipment</b> 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 show							
V	Vash thoroughly after handling.						
Ν	No data available.						
Se	ction 9. Physical and Chemical Properties						
Information on Basic Physic	cal 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.						
-	No data.						
	No data available.						
-	LEL: No data. UEL: No data.						
Vapor Pressure (vs. Air or r Hg):	nm 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.						
	No data.						
-							
	No data.						
-							
	No data.						
	Engineering Controls (Ventilation etc.): 4 (Ventilation etc.): 4 Personal protection equipment Eye Protection: 5 Protective Gloves: 6 Other Protective Clothing: 1 Respiratory Equipment 1 (Specify Type): 4 Work/Hygienic/Maintenan 1 ce Practices: 7 Work/Hygienic/Maintenan 1 ce Practices: 7 Molting States: 7 Appearance and Odor: 7 pH: 7 Melting Point: 7 Boiling Point: 7 Flash Pt: 7 Evaporation Rate: 7 Flammability (solid, gas): 7 Explosive Limits: 7 Vapor Pressure (vs. Air or 17 Hg): 7 Vapor Density (vs. Air = 1): 7 Specific Gravity (Water = 1) Solubility in Water: 7 Partice 1 Solubility in Water: 7 Note: 7 N						



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			Section 10. Stability and	Reactiv	vity				
10.1	Reactivity: No data available.								
10.2	Stability: Unstable [] Stable [X]								
10.3	Stability	Note(s):	Stable if stored in accordance with information listed on the product insert.						
	Polymerization:		Will occur [ ] Will not occur [ X ]						
10.4	Conditio	ns To Avoid:	No data available.						
10.5	5 Incompatibility - Materials strong oxidizing agents								
To Avoid:									
10.6	Hazardous Decomposition or Byproducts:		carbon dioxide						
			carbon monoxide nitrogen oxides						
			Section 11. Toxicological	Informa	ation				
11.1	Informat	ion on	The toxicological effects of this product have	ve not beer	n thoroughly st	udied.			
	Toxicolo	gical Effects:							
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
1081 <sup>,</sup>	110-72-6	L-Leucinamide,		n.a.	n.a.	n.a.	n.a.		
			asparaginyl-L-alanyl-L-prolyl-L-phenylalan						
		yl-L-a-aspartyl-L-v	valylglycyl-L-isoleucyl-L-lysyl-L-le						
			Section 12. Ecological Ir	nformat	ion				
12.1	Toxicity	:	Avoid release into the environment.						
			Runoff from fire control or dilution water may cause pollution.						
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	B No data available.						
	assessm	nent:							
12.6	Other ad	lverse effects:	No data available.						
				- ! -! (!	ions				
1	· · · · · · · · · · · · · · · · · · ·								
13.1	Waste D	isposal Method:	Section 13. Disposal Con Dispose in accordance with local, state, an						
13.1	Waste D	isposal Method:	•	d federal re	egulations.				
13.1		isposal Method: RANSPORT (US I	Dispose in accordance with local, state, an Section 14. Transport Ir	d federal re	egulations.				
14.1	LAND T		Dispose in accordance with local, state, an Section 14. Transport Ir	d federal re	egulations.				
14.1 D	LAND T	RANSPORT (US I r Shipping Name:	Dispose in accordance with local, state, an Section 14. Transport Ir	d federal re	egulations.				
14.1 D D	LAND T POT Prope	RANSPORT (US I r Shipping Name: d Class:	Dispose in accordance with local, state, an Section 14. Transport Ir	d federal re	egulations.				
14.1 D D	LAND T POT Prope POT Hazard	RANSPORT (US I r Shipping Name: d Class:	Dispose in accordance with local, state, an Section 14. Transport In DOT): Not dangerous goods.	d federal re	egulations.				
14.1 D U 14.1	LAND T OT Prope OT Hazard IN/NA Nun LAND T	RANSPORT (US I r Shipping Name: d Class: nber:	Dispose in accordance with local, state, an Section 14. Transport In DOT): Not dangerous goods.	d federal re	egulations.				
D D U 14.1 A	LAND T OT Prope OT Hazard IN/NA Nun LAND T	RANSPORT (US I r Shipping Name: d Class: nber: RANSPORT (Euro hipping Name:	Dispose in accordance with local, state, an Section 14. Transport In DOT): Not dangerous goods.	d federal re	egulations.				
14.1 D U 14.1 A U	LAND T OT Prope OT Hazard IN/NA Nun LAND T	RANSPORT (US I r Shipping Name: d Class: nber: RANSPORT (Euro hipping Name:	Dispose in accordance with local, state, an Section 14. Transport In DOT): Not dangerous goods.	d federal re	egulations.				
14.1 D U 14.1 A U	LAND T POT Prope POT Hazard IN/NA Nun LAND T LAND Si IN Number	RANSPORT (US I r Shipping Name: d Class: nber: RANSPORT (Euro hipping Name:	Dispose in accordance with local, state, an Section 14. Transport In DOT): Not dangerous goods.	d federal re	egulations.				
14.1 D U 14.1 A U	LAND T POT Prope POT Hazard IN/NA Nun LAND T LAND Si IN Number	RANSPORT (US I r Shipping Name: d Class: nber: RANSPORT (Euro hipping Name:	Dispose in accordance with local, state, an Section 14. Transport In DOT): Not dangerous goods.	d federal re	egulations.				
14.1 D U 14.1 A U	LAND T POT Prope POT Hazard IN/NA Nun LAND T LAND Si IN Number	RANSPORT (US I r Shipping Name: d Class: nber: RANSPORT (Euro hipping Name:	Dispose in accordance with local, state, an Section 14. Transport In DOT): Not dangerous goods.	d federal re	egulations.				



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

e: Not dangerous goods.

Additional Transport Information: Transport in accordance with local, state, and federal regulations.

on:

## Section 15. Regulatory Information

CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
		asparaginyl-L-alanyl-L-prolyl-L-p spartyl-L-valylglycyl-L-isoleucyl-L	No	No	No		
CAS # Hazardous Components (Chemical Name)			Other US EPA o	r State Lists			
1081110-72-6		asparaginyl-L-alanyl-L-prolyl-L-p spartyl-L-valylglycyl-L-isoleucyl-L					
Regulatory Information Statement:		This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.					
		Section 16. Oth	er Informatio	on			
Revision Date:		03/20/2018					
Additional Info This Product:	rmation About	No data available.					
Company Policy or Disclaimer:		DISCLAIMER: This information is currently available to us. However express or implied, with respect use. Users should make their ow their particular purposes.	er, we make no wa to such informatior	rranty of merchanta n, and we assume r	ability or any other warranty no liability resulting from its		