

Revision: 07/12/2018 Supersedes Revision: 11/13/2014

)7/2006 as amended I					
		Section 1.	Identification of the Substan	ice/Mixture and o	f the Company/U	ndertaking			
.1	Produc	t Code:	16459						
	Produc	t Name:	Biotin-HPDP						
	Synony	Synonyms: (3aS,4S,6aR)-hexahydro-2-oxo-N-[6-[[1-oxo-3-(2-pyridinyldithio)propyl]amino]hexyl]-1H-thi ,4-d]imidazole-4-pentanamide;							
.2	Relevant identified uses of the substance or mixture and uses advised against:								
	Relev	Relevant identified uses: For research use only, not for human or veterinary use.							
1.3	Details of the Supplier of the Safety Data Sheet:								
	Comp	any Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	bany					
	Web s	ite address:	www.caymanchem.com						
	Inforn	nation:	Cayman Chemical Comp	any	+1 (73-	4)971-3335			
.4	Emerge	ency telephone nu	mber:						
	Emerg	gency Contact:	CHEMTREC Within USA	and Canada:	+1 (80	0)424-9300			
			CHEMTREC Outside US	A and Canada:	+1 (70	3)527-3887			
			Section 2. Haz	zards Identif	ication				
.1	Classifi	cation of the Subs	stance or Mixture:						
.2	Label Elements:								
	GHS Signal Word: None								
	GHS Hazard Phrases:								
	Based	d on evaluation of c	urrently available data this subs	stance or mixture is	s not classifiable ac	cording to GHS.			
	GHS	Precaution Phrase	es:						
	No ph	No phrases apply.							
	GHS Response Phrases:								
	No phrases apply.								
	No pri	rases apply.							
	-	rases apply. Storage and Dispo	sal Phrases:						
	GHS	Storage and Dispo	osal Phrases: for Storage and Section 13 for	Disposal information	on.				
.3	GHS Pleas	Storage and Dispo		-		spiratory tract.			
3	GHS Pleas Advers	Storage and Dispo e refer to Section 7	for Storage and Section 13 for	he mucous membra	anes and upper res	spiratory tract.			
.3	GHS Pleas Advers	Storage and Dispo e refer to Section 7 se Human Health	for Storage and Section 13 for Material may be irritating to th May be harmful by inhalation May cause eye, skin, or resp	he mucous membra n, ingestion, or skin niratory system irrita	anes and upper res absorption. ation.				
.3	GHS Pleas Advers	Storage and Dispo e refer to Section 7 se Human Health	for Storage and Section 13 for Material may be irritating to th May be harmful by inhalation May cause eye, skin, or resp	he mucous membra n, ingestion, or skin niratory system irrita	anes and upper res absorption. ation.				
2.3	GHS Pleas Advers	Storage and Dispo e refer to Section 7 se Human Health and Symptoms:	for Storage and Section 13 for Material may be irritating to th May be harmful by inhalation May cause eye, skin, or resp	he mucous membra a, ingestion, or skin iratory system irrita e, the toxicological p	anes and upper res absorption. ation. properties have not	been thoroughly investigated			
CAS	GHS Pleas Advers Effects	Storage and Dispo e refer to Section 7 se Human Health and Symptoms: SeC	for Storage and Section 13 for Material may be irritating to the May be harmful by inhalation May cause eye, skin, or resp To the best of our knowledge tion 3. Composition	he mucous membra a, ingestion, or skin iratory system irrita e, the toxicological p	anes and upper res absorption. ation. properties have not	been thoroughly investigated			

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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:	a 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	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.
	Containment and Cleanir	ngTransfer to a chemical waste container for disposal in accordance with local regulations.
	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:	

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8.2	Exposure Controls:						
8.2.1	Engineering Controls	Jse process enclosures, local exhaust ventilation, or other engineering controls to control airborne					
	(Ventilation etc.):	etc.): levels below recommended exposure limits.					
8.2.2	Personal protection equipment:						
	Eye Protection:	y glasses					
	Protective Gloves: 0	Compatible chemical-resistant gloves					
	Other Protective Clothing:Lab coat						
	Respiratory Equipment	approved respirator, as conditions warrant.					
	(Specify Type):						
	Work/Hygienic/Maintenan Do not take internally.						
	ce Practices:	acilities storing or utilizing this material should be equipped with an eyewash and a safety shower.					
	V	Vash thoroughly after handling.					
	١	lo data available.					
	Se	ction 9. Physical and Chemical Properties					
9.1	Information on Basic Physic	· · ·					
	Physical States:	 [] Gas [] Liquid [X] Solid					
	Appearance and Odor:	A crystalline 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 r	nm No data.					
	Hg):						
	Vapor Density (vs. Air = 1):	No data.					
	Specific Gravity (Water = 1)	: No data.					
	Solubility in Water:	No data.					
	Solubility Notes:	~0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2); ~20 mg/ml in DMSO & DMF;					
	Octanol/Water Partition	No data.					
	Coefficient:						
	Autoignition Pt:	No data.					
	Decomposition Temperatur	No data.					
	Viscosity:	No data.					
9.2	Other Information						
	Percent Volatile:	No data.					
	Molecular Formula & Weigh	nt: C24H37N5O4S3 539.8					

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SAFETY DATA SHEET **Biotin-HPDP**

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			Section 10. Stability and	Reacti	vity				
10.1	Reactivity: No data available.								
10.2	-								
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	-		No data available.						
10.5									
	To Avoid		5 5 5						
10.6	Hazardous		carbon dioxide						
	Decomp	osition or	carbon monoxide						
	Byprodu		hydrogen sulfides						
			nitrogen oxides						
			Section 11. Toxicological	Informa	ation				
11.1	Informat	tion on	The toxicological effects of this product ha			udied.			
	Toxicolo	ogical Effects:			0,				
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
1291	79-83-5		xahydro-2-oxo-N-[6-[[1-oxo-3-(2-pyridinyldit	n.a.	n.a.	n.a.	n.a.		
]hexyl]-1H-thieno[3,4-d]imidazole-4-pentan						
		amide							
		•	Section 12. Ecological Ir	format	ion	·	·		
12.1	Toxicity	:	Avoid release into the environment.						
	. exiety		Runoff from fire control or dilution water may cause pollution.						
12.2	Persiste	nce and	No data available.	, ,					
	Degrada								
12.3	-	mulative							
12.5	Potentia		No data available.						
12.4									
12.4	-		No data available.						
12.5			No data avallable.						
	assessn								
12.6	Other ac	lverse effects:	No data avallable.	ata available.					
			Section 13. Disposal Con	siderat	ions				
13.1	Waste D	isposal Method:	Dispose in accordance with local, state, an	nd federal r	egulations.				
			Section 14. Transport Ir	nformat	ion				
14.1	LAND T	RANSPORT (US	DOT):						
D	OT Prope	r Shipping Name	: Not dangerous goods.						
D	OT Hazar	d Class:							
U	N/NA Nun	nber:							
14.1	LAND T	RANSPORT (Eur	opean ADR/RID):						
Α	DR/RID S	hipping Name:	Not dangerous goods.						
U	UN Number:								
н	Hazard Class:								
							Aulti-rogion for		
						N	Iulti-region for		



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14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:

Not dangerous goods.

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

Section 15. Regulatory Information

CAS #	-	nents and Reauthorization Act o	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
129179-83-5	Hazardous Components (Chemical Name)(3aS,4S,6aR)-hexahydro-2-oxo-N-[6-[[1-oxo-3-(2-pyridinyldithio)propyl]amino]hexyl]-1H-thieno[3,4-d]imidazole-4-pentanamide		No	No	No	
CAS # Hazardous Con		ponents (Chemical Name)	Other US EPA or State Lists			
129179-83-5		xahydro-2-oxo-N-[6-[[1-oxo-3-(2- opyl]amino]hexyl]-1H-thieno[3,4-d tanamide				
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:	:	07/12/2018				
Additional Information About This Product:		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.				