

Revision: 10/30/2016

			entification of the Substance				
						Indertaking	
.1	Product C Product N		20534	A aid (aadium aalt)			
			(+)-Biotin 4-Amidobenzoic A		no[3 1-d]imidazol	-4-vll-1-ovopentvllaminol-benz	
	Synonyms:4-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]acid, monosodium salt;						
.2			he substance or mixture and				
		nt identified uses:	For research use only, not f	for human or veter	rinary use.		
1.3	Details of	i the Supplier of the	Safety Data Sheet:				
	Compar	ny Name:	Cayman Chemical Compan 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	у			
	Web site	e address:	www.caymanchem.com				
	Informa	tion:	Cayman Chemical Compan	ıy	+1 (734	4)971-3335	
1.4	Emergen	cy telephone numb	er:				
	Emerge	ncy Contact:	CHEMTREC Within USA and Canada:			+1 (800)424-9300	
			CHEMTREC Outside USA and Canada:		+1 (70	+1 (703)527-3887	
			Section 2. Haza	ards Identific	cation		
		ation of the Substar		ards Identific	cation		
	Classifica Label Ele			ards Identific	cation		
	Label Ele			ards Identific	cation		
	Label Ele GHS Sig GHS Ha	ments: gnal Word: azard Phrases:	nce or Mixture: None				
	Label Ele GHS Sig GHS Ha Based c	ments: gnal Word: azard Phrases: on evaluation of curre	nce or Mixture:			cording to GHS.	
	Label Ele GHS Sig GHS Ha Based o GHS Pr	ments: gnal Word: azard Phrases: on evaluation of curre recaution Phrases:	nce or Mixture: None			cording to GHS.	
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2.2 2.3	Label Ele GHS Sig GHS Ha Based o GHS Pr No phra GHS Re No phra GHS St Please n Adverse Effects a	ments: gnal Word: azard Phrases: on evaluation of curre recaution Phrases: ases apply. esponse Phrases: ases apply. orage and Disposal refer to Section 7 for Human Health M and Symptoms: M T Sectio Hazardous Compor	None None ently available data this substa Phrases: Storage and Section 13 for Di laterial may be irritating to the lay be harmful by inhalation, ir lay cause eye, skin, or respirat to the best of our knowledge, the n 3. Composition/In- ments (Chemical Name)/	isposal information mucous membrar ngestion, or skin a ttory system irritati he toxicological pr	not classifiable ac n. nes and upper res bsorption. on. roperties have not On Ingrediel EC No./	spiratory tract.	
2.2 2.3 CAS RTE	Label Ele GHS Sig GHS Ha Based C GHS Pr No phra GHS Re No phra GHS St Please n Adverse Effects a	ments: gnal Word: azard Phrases: on evaluation of curre recaution Phrases: ases apply. orage and Disposa refer to Section 7 for Human Health M and Symptoms: M T Sectio	None None ently available data this substa Phrases: Storage and Section 13 for Di laterial may be irritating to the lay be harmful by inhalation, ir lay cause eye, skin, or respirat o the best of our knowledge, th n 3. Composition/In ments (Chemical Name)/ n No.	ance or mixture is n isposal information mucous membrar ngestion, or skin al atory system irritation the toxicological pr nformation (not classifiable ac n. nes and upper res bsorption. on. operties have not	spiratory tract. 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:	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		r Contain spill and collect, as appropriate.				
	Containment and Cleaning Transfer 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	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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3.2.1 3.2.2	(Ventilation etc.): Personal protection equip	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.						
3.2.2	(Ventilation etc.): Personal protection equip							
3.2.2	Personal protection equip	levels below recommended exposure limits.						
	Eye Protection:	Personal protection equipment:						
		y glasses						
	Protective Gloves:	atible chemical-resistant gloves						
	Other Protective Clothing:	Lab coat						
	Respiratory Equipment	H approved respirator, as conditions warrant.						
	(Specify Type):							
	Work/Hygienic/Maintenan	ot take internally.						
	ce Practices:	ties storing or utilizing this material should be equipped with an eyewash and a safety showe						
		h thoroughly after handling.						
		No data available.						
	Se	ction 9. Physical and Chemical Properties						
).1 I	Information on Basic Physi	cal and Chemical Properties						
	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	mm No data.						
	Hg):							
	Vapor Density (vs. Air = 1):	No data.						
	Specific Gravity (Water = 1): No data.						
	Solubility in Water:	No data.						
	Solubility Notes:	~2 mg/ml in PBS (pH 7.2); ~1 mg/ml in DMSO;						
	Octanol/Water Partition	No data.						
	Coefficient:							
	Autoignition Pt:	No data.						
	Decomposition Temperatu	re: No data.						
	Viscosity:	No data.						
.2 (Other Information							
	Percent Volatile:	No data.						
	Molecular Formula & Weig	ht: C17H20N3O4S • Na 385.4						



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			Section 10. Stability and	Reactiv	vity				
10.1	Reactivi	ty:	No data available.						
10.2	0.2 Stability:		Unstable [] Stable [X]						
10.3	Stability	Note(s):	Stable if stored in accordance with information listed on the product insert.						
	Polymer	ization:	Will occur [] Will not occur [X]						
10.4	Conditio	ons To Avoid:	No data available.						
10.5	0.5 Incompatibility - Materials strong oxidizing agents								
	To Avoid:								
10.6 Hazardous			carbon dioxide						
	Decomposition or		carbon monoxide						
	Byprodu	icts:	nitrogen oxides						
			sodium oxides						
			sulfur oxides						
			Section 11. Toxicological	Informa	ation				
11.1	Informat	ion on	The toxicological effects of this product ha	ave not beer	n thoroughly st	udied.			
	Toxicolo	gical Effects:							
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
1024	18-74-6	(+)-Biotin 4-Amid	obenzoic Acid (sodium salt)	n.a.	n.a.	n.a.	n.a.		
		•	Section 12. Ecological I	nformati	ion	•	+		
12.1	Toxicity	:	Avoid release into the environment.						
	-		Runoff from fire control or dilution water r	nay cause po	ollution.				
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									
	Section 13. Disposal Considerations								
13.1	•								
	Section 14. Transport Information								
14.1		RANSPORT (US I	•						
		-	-						
	DOT Proper Shipping Name: Not dangerous goods. DOT Hazard Class:								
	N/NA Nun								
14.1		RANSPORT (Euro	onean ADR/RID).						
		hipping Name:	Not dangerous goods.						
	N Number		Not dangerede geede.						
-	azard Cla								



14.3	AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:

Not dangerous goods.

Additional Transport

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

Information:

Section 15. Regulatory Information

CAS #	Hazardous Components (Chemical Name)		S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
102418-74-6	(+)-Biotin 4-Amidobenzoic Acid (sodium salt)		No	No	No		
CAS #	CAS # Hazardous Components (Chemical Name)			Other US EPA or State Lists			
102418-74-6	(+)-Biotin 4-Amid	obenzoic Acid (sodium salt)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulatory Info Statement:	ormation	This SDS was prepared in acc No.1272/2008.	ordance with 29 CFF	8 1910.1200 and R	egulation (EC)		
		Section 16. Ot	her Informatio	on			
Revision Date:		10/30/2016					
Additional Information About		No data available.					
This Product:							
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.					