

Revision: 12/17/2018 Supersedes Revision: 02/19/2015

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		according to	Regulation (EC) No. 1907/2006 as a	mended by (EC) No. 2015/83	30 and US OSHA HCS	2015							
		Section 1. Ide	ntification of the Substan	ce/Mixture and of t	he Company/Ur	ndertaking							
1.1	Product Product		81882 7,8-dihydro-L-Biopterin										
	Synony	ns:	2-amino-6-(1R,2S-dihydr	oxypropyl)-7,8-dihydi	ro-4(1H)-pteridinc	one; BH2; Dihydrobiopterin;							
1.2	Relevan	t identified uses of th	ne substance or mixture a	nd uses advised ag	jainst:								
	Releva	int identified uses:	For research use only, no	ot for human or veteri	inary use.								
1.3	Details of the Supplier of the Safety Data Sheet:												
	Compa	any Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	any									
	Web s	ite address:	www.caymanchem.com										
	Inform	ation:	Cayman Chemical Comp	any	+1 (734	4)971-3335							
1.4	Emerge	ncy telephone numbe	er:										
	Emerg	ency Contact:	CHEMTREC Within USA	and Canada:	+1 (800	0)424-9300							
			CHEMTREC Outside US	A and Canada:	+1 (703	3)527-3887							
			Section 2. Haz	zards Identific	ation								
2.1	Classifie	cation of the Substan	ce or Mixture:										
2.2	Label El	ements:											
	GHS S	ignal Word:	None										
		GHS Hazard Phrases:											
	Based	on evaluation of curre	ntly available data this sub	stance or mixture is n	not classifiable ac	cording to GHS.							
	GHS F	GHS Precaution Phrases:											
No phrases apply. GHS Response Phrases: No phrases apply.													
							GHS Storage and Disposal Phrases:						
								Please	Please refer to Section 7 for Storage and Section 13 for Disposal information.				
2.3		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.													
			ay cause eye, skin, or resp			been thoroughly investigated.							
					•								
		Sectio	n 3. Composition	/Information c	on Ingredier	nts							
· · · ·		Hazardous Compon REACH Registratior	ents (Chemical Name)/ n No.	Concentration	EC No./ EC Index No.	GHS Classification							
6779-87-9 NA		7,8-dihydro-L-Biopterin		100.0 %	NA NA	No data available.							



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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	A solid water stream may be inefficient.				
	Media:					
5.2	Flammable Properties an Hazards:	dNo 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 and	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 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 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



Multi-region format

8.2	Exposure Controls:						
8.2.1	Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne					
	(Ventilation etc.):	levels below recommended exposure limits.					
8.2.2	Personal protection equipment:						
	Eye Protection:	Safety glasses					
	Protective Gloves:	Compatible chemical-resistant gloves					
	Other Protective Clothing:Lab coat						
	Respiratory Equipment	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 shower.					
		Wash thoroughly after handling.					
		No data available.					
	Se	ection 9. Physical and Chemical Properties					
9.1	Information on Basic Phys	ical 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	I): No data.					
	Solubility in Water:	No data.					
	Solubility Notes:	Soluble (sparingly) in: water;					
	Octanol/Water Partition	No data.					
	Coefficient:						
	Autoignition Pt:	No data.					
	Decomposition Temperatu	: No data.					
	Viscosity:	No data.					
9.2	Other Information						
	Percent Volatile:	No data.					
	Molecular Formula & Weig	Jht: C9H13N5O3 239.2					



Multi-region format

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			Section 10. Stability and	Reactiv	ity				
10.1	Reactivity	<i>'</i> :	No data available.						
10.2	Stability:		Unstable [] Stable [X]						
0.3	Stability N	Note(s):	Stable if stored in accordance with information	ation listed or	n the product	insert.			
Polymerization:		ation:	Will occur [] Will not occur [X]						
10.4	Condition	s To Avoid:	No data available.						
10.5 Incompatibility - Materials strong oxidizing agents									
	To Avoid:								
10.6	Hazardou	-	carbon dioxide						
	Decompo		carbon monoxide						
	Byproduc	its:	nitrogen oxides						
			Section 11. Toxicological	Informa	tion				
11.1	Informatio		The toxicological effects of this product ha	ve not been	thoroughly st	udied.			
	Toxicolog	jical Effects:							
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
677	9-87-9	7,8-dihydro-L-Bio	pterin	n.a.	n.a.	n.a.	n.a.		
	·		Section 12. Ecological In	formatio	on		·		
12.1	Toxicity:		Avoid release into the environment.						
	-		Runoff from fire control or dilution water may cause pollution.						
12.2	Persisten	ce and	No data available.						
	Degradability:								
	-								
12.3	Bioaccum	-	No data available.						
12.3	-	nulative	No data available.						
12.3 12.4	Bioaccum	nulative	No data available. No data available.						
	Bioaccum Potential: Mobility ir	nulative							
12.4	Bioaccum Potential: Mobility ir	nulative n Soil: f PBT and vPvB	No data available.						
12.4	Bioaccum Potential: Mobility in Results of assessme	nulative n Soil: f PBT and vPvB	No data available.						
12.4 12.5	Bioaccum Potential: Mobility in Results of assessme	nulative n Soil: f PBT and vPvB ent:	No data available. No data available.	sideratio	ons				
12.4 12.5	Bioaccum Potential: Mobility ir Results of assessme Other adv	nulative n Soil: f PBT and vPvB ent:	No data available. No data available. No data available.						
12.4 12.5 12.6	Bioaccum Potential: Mobility ir Results of assessme Other adv	nulative n Soil: f PBT and vPvB ent: verse effects:	No data available. No data available. No data available. Section 13. Disposal Cor	nd federal reg	gulations.				
12.4 12.5 12.6	Bioaccum Potential: Mobility ir Results of assessme Other adv Waste Dis	nulative n Soil: f PBT and vPvB ent: verse effects:	No data available. No data available. No data available. Section 13. Disposal Con Dispose in accordance with local, state, an Section 14. Transport In	nd federal reg	gulations.				
12.4 12.5 12.6 13.1 14.1	Bioaccum Potential: Mobility ir Results of assessme Other adv Waste Dis	nulative n Soil: f PBT and vPvB ent: verse effects: sposal Method:	No data available. No data available. No data available. Section 13. Disposal Cor Dispose in accordance with local, state, an Section 14. Transport In DOT):	nd federal reg	gulations.				
12.4 12.5 12.6 13.1 14.1	Bioaccum Potential: Mobility ir Results of assessme Other adv Waste Dis	nulative n Soil: f PBT and vPvB ent: rerse effects: sposal Method: ANSPORT (US I Shipping Name:	No data available. No data available. No data available. Section 13. Disposal Cor Dispose in accordance with local, state, an Section 14. Transport In DOT):	nd federal reg	gulations.				
12.4 12.5 12.6 13.1 14.1 D	Bioaccum Potential: Mobility ir Results of assessme Other adv Waste Dis LAND TR	ANSPORT (US I Shipping Name: Class:	No data available. No data available. No data available. Section 13. Disposal Cor Dispose in accordance with local, state, an Section 14. Transport In DOT):	nd federal reg	gulations.				
12.4 12.5 12.6 13.1 14.1 D	Bioaccum Potential: Mobility ir Results of assessme Other adv Waste Dis LAND TR OT Proper OT Hazard N/NA Numb	ANSPORT (US I Shipping Name: Class: port: Ansport (US I Shipping State: Class: port:	No data available. No data available. No data available. Section 13. Disposal Cor Dispose in accordance with local, state, an Section 14. Transport In DOT):	nd federal reg	gulations.				
12.4 12.5 12.6 13.1 14.1 D U 14.1	Bioaccum Potential: Mobility ir Results of assessme Other adv Waste Dis LAND TR OT Proper OT Hazard N/NA Numb LAND TR	ANSPORT (US I Shipping Name: Class: port: Ansport (US I Shipping State: Class: port:	No data available. No data available. No data available. Section 13. Disposal Cor Dispose in accordance with local, state, ar Section 14. Transport In DOT): Not dangerous goods.	nd federal reg	gulations.				
12.4 12.5 12.6 13.1 14.1 D U 14.1 A	Bioaccum Potential: Mobility ir Results of assessme Other adv Waste Dis LAND TR OT Proper OT Hazard N/NA Numb LAND TR	ANSPORT (US I Shipping Name: ANSPORT (Euro ANSPORT (US I Shipping Name: ANSPORT (Euro ANSPORT (Euro ANSPORT (Euro	No data available. No data available. No data available. Section 13. Disposal Con Dispose in accordance with local, state, an Section 14. Transport In DOT): Not dangerous goods.	nd federal reg	gulations.				



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14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:

e: 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)		
6779-87-9	7,8-dihydro-L-Biopterin		No	No	No		
CAS #	Hazardous Components (Chemical Name)		Other US EPA or S	tate Lists	4		
6779-87-9	7,8-dihydro-L-Biopterin		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulatory Information Statement:		This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.					
		Section 16. Oth	er Information	า			
Revision Date:		12/17/2018					
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.					