

Revision: 07/08/2017

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		ding to Regulation (EC) No. 190			
	Section 1. Id	lentification of the Substar	nce/Mixture and of	the Company/U	ndertaking
1.1	Product Code: Product Name: Synonyms:		roxy-3-methylbutan)-2-hydroxy-3-methylbutanoyl-N ucyl-(2R)-2-hydroxy-3-methylbu
1.2	Relevant identified uses of	the substance or mixture a	and uses advised a	igainst:	
	Relevant identified uses:	For research use only, ne	ot for human or vete	erinary use.	
1.3	Details of the Supplier of th	e Safety Data Sheet:			
	Company Name: Web site address:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 www.caymanchem.com	pany		
	Information:	Cayman Chemical Comp	bany	+1 (73	4)971-3335
1.4	Emergency telephone num	ber:			
	Emergency Contact:	CHEMTREC Within USA CHEMTREC Outside US		-	0)424-9300 3)527-3887
		Section 2. Ha	zards Identifi	cation	
	Classification of the Substa Label Elements: GHS Signal Word: GHS Hazard Phrases:	nce or Mixture: None	stance or mixture is	not classifiable as	poording to GHS
2.1 2.2 2.3	Label Elements: GHS Signal Word: GHS Hazard Phrases: Based on evaluation of curr GHS Precaution Phrases: No phrases apply. GHS Response Phrases: No phrases apply. GHS Storage and Disposa Please refer to Section 7 fo Adverse Human Health	nce or Mixture: None rently available data this sub al Phrases: r Storage and Section 13 for Material may be irritating to t May be harmful by inhalation May cause eye, skin, or resp	Disposal information he mucous membra n, ingestion, or skin a iratory system irrita	on. ines and upper res absorption. tion.	
2.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: Based on evaluation of curr GHS Precaution Phrases: No phrases apply. GHS Response Phrases: No phrases apply. GHS Storage and Disposa Please refer to Section 7 fo Adverse Human Health	nce or Mixture: None rently available data this sub al Phrases: r Storage and Section 13 for Material may be irritating to t May be harmful by inhalation May cause eye, skin, or resp	Disposal information he mucous membra n, ingestion, or skin a iratory system irrita e, the toxicological p	on. Ines and upper res absorption. tion. roperties have not	spiratory tract. t been thoroughly investigated.
2.2 2.3	Label Elements: GHS Signal Word: GHS Hazard Phrases: Based on evaluation of curr GHS Precaution Phrases: No phrases apply. GHS Response Phrases: No phrases apply. GHS Storage and Dispose Please refer to Section 7 for Adverse Human Health Effects and Symptoms:	None rently available data this sub al Phrases: r Storage and Section 13 for Material may be irritating to t May be harmful by inhalation May cause eye, skin, or resp To the best of our knowledge on 3. Composition nents (Chemical Name)/	Disposal information he mucous membra n, ingestion, or skin a iratory system irrita e, the toxicological p	on. Ines and upper res absorption. tion. roperties have not	spiratory tract. t been thoroughly investigated.

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 contaminate 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	Methods and Material Fo	r Contain spill and collect, as appropriate.
	Containment and Cleanin	ngTransfer 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	Neep 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	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne				
	• •	levels below recommended exposure limits.				
8.2.2	Personal protection equip	ment:				
-		Safety glasses				
	-	Compatible chemical-resistant gloves				
	Other Protective Clothing:Lab coat					
	-	NIOSH approved respirator, as conditions warrant.				
	(Specify Type):					
	Work/Hygienic/Maintenan	Do not take internally				
		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 Physic	ical and Chemical Properties				
	Physical States:	[]Gas []Liquid [X]Solid				
	Appearance and Odor:	A 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 in: EtOH; MeOH; DMSO; DMF;				
	Octanol/Water Partition	No data.				
	Coefficient:					
	Autoignition Pt:	No data.				
	Decomposition Temperatu	ire: No data.				
	Viscosity:	No data.				
9.2	Other Information					
	Percent Volatile:	No data.				
	Molecular Formula & Weig	ht: C48H84N4O12 909.2				

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			Section 10. Stability					
10.1	Reactivi	ty:	No data available.					
10.2	Stability	:	Unstable [] Stable [X]					
10.3 Stability Note(s): Polymerization:		Note(s):	Stable if stored in accordance with information listed on the product insert. Will occur [] Will not occur [X] No data available.					
		ization:						
10.4	0.4 Conditions To Avoid:							
10.5 Incompatibility - Materials			strong oxidizing agents					
	To Avoid:							
10.6	Hazardo	us	carbon dioxide					
	Decomposition or		carbon monoxide					
	Byproducts:		nitrogen oxides					
			Section 11. Toxicolog	cal Informa	ation			
11.1	Informat	ion on	The toxicological effects of this produced	ct have not beer	n thoroughly st	udied.		
	Toxicolo	gical Effects:						
CAS #	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
					-			
6476	63-82-2	Bassianolide		n.a.	n.a.	n.a.	n.a.	
6476	63-82-2			n.a.	n.a.			
		Bassianolide	Section 12. Ecologic	n.a.	n.a.			
6476 12.1	53-82-2 Toxicity	Bassianolide	Section 12. Ecologic Avoid release into the environment.	n.a. al Informat	n.a.			
12.1	Toxicity	Bassianolide	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa	n.a. al Informat	n.a.		_	
	Toxicity Persiste	Bassianolide	Section 12. Ecologic Avoid release into the environment.	n.a. al Informat	n.a.		_	
12.1 12.2	Toxicity Persiste Degrada	Bassianolide	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available.	n.a. al Informat	n.a.		_	
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Caynan

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)	
64763-82-2	Bassianolide		No	No	No	
CAS #	Hazardous Components (Chemical Name)		Other US EPA or	State Lists	•	
64763-82-2	Bassianolide		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Information Statement:		This SDS was prepared in acco No.1272/2008.	rdance with 29 CFR	1910.1200 and Regu	lation (EC)	
		Section 16. Oth	ner Informatio	n		
Revision Date:		07/08/2017				
Additional Info	ormation About	No data available.				
This Product:						
Company Poli	cy or Disclaimer:	DISCLAIMER: This information currently available to us. Howev express or implied, with respect use. Users should make their o their particular purposes.	er, we make no warra to such information,	anty of merchantabilit and we assume no lia	y or any other warranty ability resulting from its	