

Multi-region format

Revision: 04/16/2019 Supersedes Revision: 02/12/2015

		according to	Regulation (EC) No. 1907/2006 as amended		SU AND US USHA HUS	2015		
			entification of the Substance/M	-				
.1	Product		10009598			la or tarming		
••	Product		6,7-dihydroxy Bergamottin					
	Synony			nethvl-2-octenvlld	oxv]-7H-fuoro[3.2	e-al[1]benzopyran-7-one:		
	- ,,		6,7-DHB;	hydroxy-3,7-dimethyl-2-octenyl]oxy]-7H-fuoro[3,2-g][1]benzopyran-7-one;				
.2	Relevant identified uses of the substance or mixture and uses advised against:							
	Releva	Relevant identified uses: For research use only, not for human or veterinary use.						
.3		of the Supplier of the	-					
	Company Name:		Cayman Chemical Company					
			1180 E. Ellsworth Rd. Ann Arbor, MI 48108					
	Waha	ite address:	www.caymanchem.com					
	Inform		Cayman Chemical Company		1 (72)	1\071 2225		
.4		ncy telephone numb			+1 (734	4)971-3335		
.4	-	lency Contact:	CHEMTREC Within USA and (Canada:	+1 (80	0)424-9300		
				()3)527-3887		
			CHEMTREC Outside USA and	d Canada:	+1 (70	3)527-3887		
			CHEMTREC Outside USA and Section 2. Hazard		`	3)527-3887		
.1	Classifi	cation of the Substar	Section 2. Hazard		`	3)527-3887		
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	Label E		Section 2. Hazard		`	3)527-3887		
	Label E GHS S	ements:	Section 2. Hazard		`	3)527-3887		
	Label E GHS S GHS H	ements: Signal Word: Hazard Phrases:	Section 2. Hazard	ds Identific	ation	·		
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	Label El GHS S GHS H Based GHS H No ph	ements: Signal Word: Hazard Phrases: on evaluation of curre Precaution Phrases:	Section 2. Hazard	ds Identific	ation	·		
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.2	Label El GHS S GHS H Based GHS H No ph GHS S Please Advers	lements: Signal Word: Hazard Phrases: on evaluation of curre Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposa e refer to Section 7 for e Human Health M and Symptoms: M	Section 2. Hazard nce or Mixture: None ently available data this substance Phrases: Storage and Section 13 for Dispo laterial may be irritating to the mu	bosal information ucous membrancestion, or skin ab	ation ot classifiable ac es and upper res psorption.	cording to GHS.		
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2.2 2.3 CAS RTEC	Label E GHS S GHS H Based GHS F No ph GHS S Please Advers Effects	lements: Signal Word: Hazard Phrases: on evaluation of curre Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposa e refer to Section 7 for e Human Health M and Symptoms: M T Sectio Hazardous Compor	Section 2. Hazard ince or Mixture: None Intly available data this substance of Phrases: Storage and Section 13 for Dispo- laterial may be irritating to the mu lay be harmful by inhalation, inge- lay cause eye, skin, or respiratory to the best of our knowledge, the to n 3. Composition/Info mo.	bosal information ucous membran estion, or skin ab ry system irritation toxicological pro	ation ot classifiable ac es and upper res poorption. on. operties have not on Ingrediel EC No./	cording to GHS.		



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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	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 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 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:	

Multi-region format



8.2	2 Exposure Controls:						
8.2.1	Engineering Controls	se process enclosures, local exhaust ventilation, or other engineering controls to control airborne					
	(Ventilation etc.): levels below recommended exposure limits.						
8.2.2	Personal protection equipme	ent:					
	Eye Protection: Sa	fety glasses					
	Protective Gloves: Co	mpatible 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: Fa	cilities storing or utilizing this material should be equipped with an eyewash and a safety shower					
	W	ash thoroughly after handling.					
	No	o data available.					
	Soo	tion 0 Physical and Chamical Proparties					
		tion 9. Physical and Chemical Properties					
9.1	Information on Basic Physica	-					
	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 m	m 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); ~10 mg/ml in EtOH, ~30 mg/ml in DMSO & DMF;					
	Octanol/Water Partition	No data.					
	Coefficient:						
	Autoignition Pt:	No data.					
	Decomposition Temperature	: No data.					
	Viscosity:	No data.					
9.2	Other Information						
	Percent Volatile:	No data.					



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			Section 10. Stability and	d Reacti	vity			
10.1	Reactivit	iy:	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.					
	Polymer	ization:	Will occur [] Will not occur [X]					
10.4	Conditio	ns To Avoid:	No data available.					
10.5	Incompatibility - Materials strong oxidizing agents To Avoid:							
10.6			carbon dioxide					
10.0	Hazardous Decomposition or		carbon dioxide carbon monoxide					
	Byprodu							
			Section 11. Toxicological	Informa	ation			
11.1	Informat Toxicolo	ion on gical Effects:	The toxicological effects of this product he	ave not beer	n thoroughly st	udied.		
CAS #			ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
1454 ⁻	14-76-2	6,7-dihydroxy Ber		n.a.	n.a.	n.a.	n.a.	
				-			ļ	
•		ļ	Section 12, Ecological I	nformat	ion			
12.1	Toxicity	L	Section 12. Ecological I Avoid release into the environment.	nformat	ion			
12.1	Toxicity:		Avoid release into the environment.					
12.1 12.2	Persiste	nce and	v					
12.2	Persiste Degrada	nce and bility:	Avoid release into the environment. Runoff from fire control or dilution water r No data available.					
	Persiste Degrada Bioaccu	nce and bility: mulative	Avoid release into the environment. Runoff from fire control or dilution water r					
12.2 12.3	Persiste Degrada Bioaccu Potentia	nce and bility: mulative I:	Avoid release into the environment. Runoff from fire control or dilution water r No data available. No data available.					
12.2 12.3 12.4	Persiste Degrada Bioaccu Potentia Mobility	nce and bility: mulative I: in Soil:	Avoid release into the environment. Runoff from fire control or dilution water r No data available. No data available. No data available.					
12.2 12.3	Persiste Degrada Bioaccu Potentia Mobility Results	nce and bility: mulative I: in Soil: of PBT and vPvB	Avoid release into the environment. Runoff from fire control or dilution water r No data available. No data available.					
12.2 12.3 12.4 12.5	Persiste Degrada Bioaccu Potentia Mobility Results assessm	nce and bility: mulative I: in Soil: of PBT and vPvB	Avoid release into the environment. Runoff from fire control or dilution water r No data available. No data available. No data available.					
12.2 12.3 12.4	Persiste Degrada Bioaccu Potentia Mobility Results assessm	nce and bility: mulative I: in Soil: of PBT and vPvB tent:	Avoid release into the environment. Runoff from fire control or dilution water r No data available. No data available. No data available. No data available. No data available.	nay cause p	ollution.			
12.2 12.3 12.4 12.5	Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad	nce and bility: mulative I: in Soil: of PBT and vPvB tent:	Avoid release into the environment. Runoff from fire control or dilution water r No data available. No data available. No data available. No data available.	nay cause p	ollution.			
12.2 12.3 12.4 12.5 12.6	Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad	nce and bility: mulative I: in Soil: of PBT and vPvB tent: verse effects:	Avoid release into the environment. Runoff from fire control or dilution water r No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Con	nay cause p nsiderat	ollution. ions egulations.			
12.2 12.3 12.4 12.5 12.6	Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad	nce and bility: mulative I: in Soil: of PBT and vPvB tent: verse effects:	Avoid release into the environment. Runoff from fire control or dilution water r No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Con Dispose in accordance with local, state, a Section 14. Transport I	nay cause p nsiderat	ollution. ions egulations.			
12.2 12.3 12.4 12.5 12.6 13.1 14.1	Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D	nce and bility: mulative l: in Soil: of PBT and vPvB nent: verse effects: isposal Method:	Avoid release into the environment. Runoff from fire control or dilution water r No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Con Dispose in accordance with local, state, a Section 14. Transport I	nay cause p nsiderat	ollution. ions egulations.			
12.2 12.3 12.4 12.5 12.6 13.1 14.1 D	Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D	nce and bility: mulative l: in Soil: of PBT and vPvB eent: verse effects: isposal Method: RANSPORT (US I r Shipping Name:	Avoid release into the environment. Runoff from fire control or dilution water r No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Con Dispose in accordance with local, state, a Section 14. Transport I	nay cause p nsiderat	ollution. ions egulations.			
12.2 12.3 12.4 12.5 12.6 13.1 14.1 D(Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T	nce and bility: mulative I: in Soil: of PBT and vPvB hent: verse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class:	Avoid release into the environment. Runoff from fire control or dilution water r No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Con Dispose in accordance with local, state, a Section 14. Transport I	nay cause p nsiderat	ollution. ions egulations.			
12.2 12.3 12.4 12.5 12.6 13.1 14.1 D(Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazard	nce and bility: mulative I: in Soil: of PBT and vPvB hent: verse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class:	Avoid release into the environment. Runoff from fire control or dilution water r No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Con Dispose in accordance with local, state, a Section 14. Transport I Dot): Not dangerous goods.	nay cause p nsiderat	ollution. ions egulations.			
12.2 12.3 12.4 12.5 12.6 13.1 14.1 D(UI 14.1	Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazard N/NA Nun LAND T	nce and bility: mulative l: in Soil: of PBT and vPvB nent: verse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: nber:	Avoid release into the environment. Runoff from fire control or dilution water r No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Con Dispose in accordance with local, state, a Section 14. Transport I Dot): Not dangerous goods.	nay cause p nsiderat	ollution. ions egulations.			
12.2 12.3 12.4 12.5 12.6 13.1 14.1 D(UI 14.1 AI UI	Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazard N/NA Nun LAND T	nce and bility: mulative l: in Soil: of PBT and vPvB nent: verse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: nber: RANSPORT (Euro nipping Name: :	Avoid release into the environment. Runoff from fire control or dilution water r No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Con Dispose in accordance with local, state, a Section 14. Transport I DOT): Not dangerous goods.	nay cause p nsiderat	ollution. ions egulations.			



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14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:

e: Not dangerous goods.

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

Section 15. Regulatory Information

CAS #	Hazardous Components (Chemical Name)		S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
145414-76-2	6,7-dihydroxy Bergamottin		No	No	No	
CAS #	Hazardous Components (Chemical Name)		Other US EPA or	State Lists	•	
145414-76-2	6,7-dihydroxy Bergamottin		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. Ot	her Informatio	n		
Revision Date:		04/16/2019				
Additional Information About		No data available.				
		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 warrant 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.				