

Revision: 08/24/2017

		accord	ling to Regulation (EC) No. 190	)7/2006 as amended by	(EC) No. 1272/200	8			
		Section 1. Ide	entification of the Substar	nce/Mixture and of t	the Company/Ur	ndertaking			
1.1	Produc Produc Synony	t Name:	21399 22(S)-hydroxy Cholester cholest-5-ene-3.beta.,22						
1.2	Relevar	nt identified uses of t	he substance or mixture a	and uses advised ag	gainst:				
	Relev	ant identified uses:	For research use only, ne	ot for human or veter	inary use.				
1.3		of the Supplier of the any Name:	Safety Data Sheet: Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	bany					
	Web s	ite address:	www.caymanchem.com						
	Inforn	nation:	Cayman Chemical Comp	bany	+1 (734	4)971-3335			
1.4	Emerge	ency telephone numb	er:						
	Emerg	gency Contact:	CHEMTREC Within USA		+1 (80	0)424-9300			
			CHEMTREC Outside US	A and Canada:	+1 (70	3)527-3887			
			Section 2. Ha	zards Identific	cation				
2.1	Classifi	cation of the Substar	nce or Mixture:						
2.2	Label E	lements:							
	GHS S	Signal Word:	None						
	GHS	Hazard Phrases:							
	Based	d on evaluation of curre	ently available data this sub	stance or mixture is r	not classifiable ac	cording to GHS.			
	GHS	Precaution Phrases:							
	No ph	rases apply.							
		Response Phrases:							
	-	rases apply.							
		GHS Storage and Disposal Phrases:							
		e refer to Section 7 for Storage and Section 13 for Disposal information.							
<ul> <li>2.3 Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract.</li> <li>Effects and Symptoms: May be harmful by inhalation, ingestion, or skin absorption.</li> </ul>					piratory tract.				
	Effects		lay cause eye, skin, or resp	-	-				
						been thoroughly investigated.			
		Sectio	n 3. Composition	/Information of	on Inaredie	nts			
	:#/	1	•	Concentration	EC No./	GHS Classification			
	CS #	Hazardous Components (Chemical Name)/ REACH Registration No.		Concentration	EC Index No.	GIIS Classification			
22348-64-7 NA		Cholest-5-ene-3,22-diol, (3ß,22S)-		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 Media:	A solid water stream may be inefficient.
5.2	Flammable Properties ar 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 Instruction	<b>s:</b> 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.
	Emergency Procedures:	<b>d</b> As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, 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.
0.2	Precautions:	
6.3		r Contain spill and collect, as appropriate.
		gTransfer 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	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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	WTMTCAT							
8.2	Exposure Controls:							
8.2.1	Engineering Controls	Jse process enclosures, local exhaust ventilation, or other engineering controls to control airborne						
	(Ventilation etc.):	evels below recommended exposure limits.						
8.2.2	Personal protection equipm	nent:						
	Eye Protection: S	Safety glasses						
	Protective Gloves: C	Compatible chemical-resistant gloves						
	Other Protective Clothing:Lab coat							
	Respiratory Equipment N	H approved respirator, as conditions warrant.						
	(Specify Type):							
	Work/Hygienic/Maintenan Do not take internally.							
	ce Practices: F	acilities storing or utilizing this material should be equipped with an eyewash and a safety showe						
	V	Vash thoroughly after handling.						
	Ν	lo data available.						
	Sec	ction 9. Physical and Chemical Properties						
9.1	Information on Basic Physic							
0.1	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 n	nm No data.						
	Hg):							
	Vapor Density (vs. Air = 1):	No data.						
	Specific Gravity (Water = 1)	: No data.						
	Solubility in Water:	No data.						
	Solubility Notes:	Soluble in: chloroform;						
	Octanol/Water Partition	No data.						
	Coefficient:							
	Autoignition Pt:	No data.						
	Decomposition Temperatur							
	Viscosity:	No data.						
9.2	Other Information							
	Percent Volatile:	No data.						
	Molecular Formula & Weigh	nt: C27H46O2 402.7						

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10.1	Reactivit	y:	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 ]					
		ization:						
10.4	Conditio	ns To Avoid:	No data available.					
<b>10.5</b> Incompatibility - Materials strong oxidizing agents								
To Avoid:								
10.6	Hazardous		carbon dioxide					
	Decomposition or		carbon monoxide					
	Byproducts:							
			Section 11. Toxicolog	cal Informa	ation			
11.1	Informat		The toxicological effects of this prod	ict have not beer	n thoroughly st	udied.		
	Toxicolo	gical Effects:						
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
2234								
	48-64-7	Cholest-5-ene-3,2	22-diol, (3ß,22S)-	n.a.	n.a.	n.a.	n.a.	
	48-64-7	Cholest-5-ene-3,2	22-diol, (38,228)- Section 12. Ecologic			n.a.	n.a.	
12.1	Toxicity:					n.a.	n.a.	
12.1			Section 12. Ecologic	al Informat	ion	n.a.	n.a.	
12.1 12.2			Section 12. Ecologic Avoid release into the environment.	al Informat	ion	n.a.	n.a.	
	Toxicity:	nce and	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa	al Informat	ion	n.a.	n.a.	
	Toxicity: Persiste	nce and bility:	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa	al Informat	ion	n.a.	n.a.	
12.2	Toxicity: Persiste Degrada	nce and bility: mulative	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available.	al Informat	ion	n.a.	n.a.	
12.2	Toxicity: Persiste Degrada Bioaccu	nce and bility: mulative I:	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available.	al Informat	ion	n.a.	n.a.	
12.2 12.3	Toxicity: Persiste Degrada Bioaccu Potentia Mobility	nce and bility: mulative I: in Soil:	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available.	al Informat	ion	n.a.	n.a.	
12.2 12.3 12.4	Toxicity: Persiste Degrada Bioaccu Potentia Mobility	nce and bility: mulative I: in Soil: of PBT and vPvB	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available.	al Informat	ion	n.a.	n.a.	
12.2 12.3 12.4	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm	nce and bility: mulative I: in Soil: of PBT and vPvB	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available.	al Informat	ion	n.a.	n.a.	
12.2 12.3 12.4 12.5	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm	nce and bility: mulative I: in Soil: of PBT and vPvB tent:	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available.	al Informat	ion ollution.	n.a.	n.a.	
12.2 12.3 12.4 12.5	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad	nce and bility: mulative I: in Soil: of PBT and vPvB tent:	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available.	al Informat ter may cause p Considerat	ion ollution.	n.a.	n.a.	
12.2 12.3 12.4 12.5 12.6	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad	nce and bility: mulative I: in Soil: of PBT and vPvB tent: verse effects:	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. Section 13. Disposal	al Informat ter may cause p Considerat te, and federal r	ion ollution. ions egulations.	n.a.	n.a.	
12.2 12.3 12.4 12.5 12.6	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad	nce and bility: mulative I: in Soil: of PBT and vPvB tent: verse effects:	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Dispose in accordance with local, sta Section 14. Transpo	al Informat ter may cause p Considerat te, and federal r	ion ollution. ions egulations.	n.a.	n.a.	
12.2 12.3 12.4 12.5 12.6 13.1 14.1	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad	nce and bility: mulative I: in Soil: of PBT and vPvB ent: verse effects: isposal Method:	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Dispose in accordance with local, sta Section 14. Transpo	al Informat ter may cause p Considerat te, and federal r	ion ollution. ions egulations.	n.a.	n.a.	
12.2 12.3 12.4 12.5 12.6 13.1 14.1	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad	nce and bility: mulative l: in Soil: of PBT and vPvB ent: verse effects: isposal Method: RANSPORT (US I	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Dispose in accordance with local, sta Section 14. Transpo	al Informat ter may cause p Considerat te, and federal r	ion ollution. ions egulations.	n.a.	n.a.	
12.2 12.3 12.4 12.5 12.6 13.1 14.1	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T	nce and bility: mulative I: in Soil: of PBT and vPvB eent: verse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class:	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Dispose in accordance with local, sta Section 14. Transpo	al Informat ter may cause p Considerat te, and federal r	ion ollution. ions egulations.	n.a.	n.a.	
12.2 12.3 12.4 12.5 12.6 13.1 14.1	Toxicity: 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 eent: verse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class:	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Dispose in accordance with local, str Section 14. Transpo POT): Not dangerous goods.	al Informat ter may cause p Considerat te, and federal r	ion ollution. ions egulations.	n.a.	n.a.	
12.2 12.3 12.4 12.5 12.6 13.1 14.1 D U 14.1	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazaro N/NA Nun LAND T	nce and bility: mulative l: in Soil: of PBT and vPvB eent: verse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: nber:	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Dispose in accordance with local, str Section 14. Transpo POT): Not dangerous goods.	al Informat ter may cause p Considerat te, and federal r	ion ollution. ions egulations.	n.a.	n.a.	
12.2 12.3 12.4 12.5 12.6 13.1 14.1 D U 14.1 A	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazaro N/NA Nun LAND T	nce and bility: mulative l: in Soil: of PBT and vPvB eent: verse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: nber: RANSPORT (Euro hipping Name:	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Dispose in accordance with local, sta Section 14. Transpo DOT): Not dangerous goods.	al Informat ter may cause p Considerat te, and federal r	ion ollution. ions egulations.	n.a.	n.a.	



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 Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
22348-64-7	Cholest-5-ene-3,	22-diol, (3ß,22S)-	No	No	No		
CAS # Hazardous Com		nponents (Chemical Name) Other US EPA or State Lists					
22348-64-7	Cholest-5-ene-3,22-diol, (3ß,22S)-		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulatory Inf Statement:	ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.					
		Section 16. Oth	ner Informatio	n			
Revision Date	:	08/24/2017					
Additional Info	ormation About	No data available.					
This Product:							
Company Poli	cy 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.					