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	according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008					
	Section 1.	Identification of the Substance/Mixture and of th	e Company/Undertaking			
.1	Product Code: 19850					
	Product Name:	Ergosterol				
	Synonyms: (3.beta.,22E)-ergosta-5,7,22-trien-3-ol; Provitamin D2;					
.2	Relevant identified uses of the substance or mixture and uses advised against:					
	Relevant identified uses: For research use only, not for human or veterinary use.					
.3	Details of the Supplier of	the Safety Data Sheet:				
	Company Name:	Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108				
	Web site address:	www.caymanchem.com				
	Information:	Cayman Chemical Company	+1 (734)971-3335			
.4	Emergency telephone nui	mber:				
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300			
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887			
		Section 2. Hazards Identification	ation			
2.1	Classification of the Subs	stance or Mixture:				
	Aquatic Toxicity (Chron	Aquatic Toxicity (Chronic), Category 4				
2.2	Label Elements:	ic, outegory 4				
2.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H413: May cause long las	None sting harmful effects to aquatic life.				
2.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H413: May cause long las GHS Precaution Phrase	None sting harmful effects to aquatic life.				
2.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H413: May cause long las GHS Precaution Phrase P273: Avoid release to th	None sting harmful effects to aquatic life. s : e environment.				
2.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H413: May cause long las GHS Precaution Phrases P273: Avoid release to th GHS Response Phrases	None sting harmful effects to aquatic life. s : e environment.				
2.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H413: May cause long las GHS Precaution Phrases P273: Avoid release to th GHS Response Phrases No phrases apply.	None sting harmful effects to aquatic life. e environment.				
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	Label Elements: GHS Signal Word: GHS Hazard Phrases: H413: May cause long las GHS Precaution Phrases P273: Avoid release to th GHS Response Phrases No phrases apply. GHS Storage and Dispon Please refer to Section 7	None sting harmful effects to aquatic life. s: e environment. s: bsal Phrases: for Storage and Section 13 for Disposal information.	s and upper respiratory tract.			
	Label Elements: GHS Signal Word: GHS Hazard Phrases: H413: May cause long las GHS Precaution Phrases P273: Avoid release to the GHS Response Phrases No phrases apply. GHS Storage and Dispo Please refer to Section 7 Adverse Human Health	None sting harmful effects to aquatic life. s: e environment. s: psal Phrases: for Storage and Section 13 for Disposal information. Material may be irritating to the mucous membrane	s and upper respiratory tract. sorption.			
	Label Elements: GHS Signal Word: GHS Hazard Phrases: H413: May cause long las GHS Precaution Phrases P273: Avoid release to the GHS Response Phrases No phrases apply. GHS Storage and Dispo Please refer to Section 7 Adverse Human Health	None sting harmful effects to aquatic life. s: e environment. s: psal Phrases: for Storage and Section 13 for Disposal information. Material may be irritating to the mucous membrane May be harmful by inhalation, ingestion, or skin abs May cause eye, skin, or respiratory system irritatior May cause long lasting harmful effects to aquatic life	es and upper respiratory tract. sorption. n. fe.			
	Label Elements: GHS Signal Word: GHS Hazard Phrases: H413: May cause long las GHS Precaution Phrases P273: Avoid release to the GHS Response Phrases No phrases apply. GHS Storage and Dispo Please refer to Section 7 Adverse Human Health	None sting harmful effects to aquatic life. s: e environment. s: bsal Phrases: for Storage and Section 13 for Disposal information. Material may be irritating to the mucous membrane May be harmful by inhalation, ingestion, or skin abs May cause eye, skin, or respiratory system irritation	es and upper respiratory tract. sorption. n. fe.			
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	Label Elements: GHS Signal Word: GHS Hazard Phrases: H413: May cause long las GHS Precaution Phrases P273: Avoid release to the GHS Response Phrases No phrases apply. GHS Storage and Dispo Please refer to Section 7 Adverse Human Health	None sting harmful effects to aquatic life. s: e environment. s: psal Phrases: for Storage and Section 13 for Disposal information. Material may be irritating to the mucous membrane May be harmful by inhalation, ingestion, or skin abs May cause eye, skin, or respiratory system irritatior May cause long lasting harmful effects to aquatic life	es and upper respiratory tract. sorption. n. fe.			
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		Sect	ion 3. Composition	iniormation	on ingredie	1115		
CAS RTE		ardous Comp ACH Registrat	onents (Chemical Name)/ ion No.	Concentration	EC No./ EC Index No.	GHS Classification		
-	7-87-4 Ergo 94600	Ergosterol		100.0 %	200-352-7 NA	Aquatic (C) 4: H413		
			Section 4. Fi	rst Aid Meas	ures			
4.1	Description	Description of First Aid						
	Measures:							
	In Case of In	halation:	Remove to fresh air. If not br Get immediate medical atten		al respiration or giv	ve oxygen by trained personnel		
	In Case of S	kin Contact:	Immediately wash skin with s clothing. Get medical attention			i minutes. Remove contaminate efore reuse.		
	In Case of E	ye Contact:	Hold eyelids apart and flush and tested by medical person		water for at least 1	5 minutes. Have eyes examine		
	In Case of In	gestion:	Wash out mouth with water p unconscious person. Get me medical personnel.	-	-	ve anything by mouth to an ng unless directed to do so by		
			Section 5. Fire	Fighting Me	asures			
ـــــــــــــــــــــــــــــــــــــ	Suitable Ext	inguishing	Use alcohol-resistant foam,			spray.		
	Media:		Use water spray to cool fire-	exposed containers				
	Unsuitable E Media:	Extinguishing	A solid water stream may be	inefficient.				
5.2	Flammable F Hazards:	Properties an	d No data available.					
			No data available.					
	Flash Pt:		No data.					
	Explosive Li	mits:	LEL: No data.	UEL: No c	lata.			
	Autoignition	Pt:	No data.					
5.3 Fire Fighting Instructions: As in any fire, wear self-contained				ined breathing apparatus pressure-demand (NIOSH approved or gear to prevent contact with skin and eyes.				
			Section 6. Accider			,		
6.1	Protective P	rocautions	Avoid raising and breathing			<u>, </u>		
5.1		-	• •	•	•	athing apparatus, or respirator		
	Emergency		and appropriate personal pr					
	Environmen		Take steps to avoid release	·		, ,		
62								
6.2	Precautions							
	Precautions Methods and	d Material Fo	Contain spill and collect as	appropriate.				
	Methods and		Contain spill and collect, as gTransfer to a chemical wast		osal in accordance	with local regulations.		
	Methods and		Contain spill and collect, as gTransfer to a chemical wast		osal in accordance	with local regulations.		
	Methods and Containmen		gTransfer to a chemical wast	e container for dispo		with local regulations.		
6.2 6.3	Methods and Containmen Up:	t and Cleanin	gTransfer to a chemical wast Section 7. Hai	e container for dispondent	torage	with local regulations.		
6.3	Methods and Containmen Up: Precautions	t and Cleanin To Be Taken	gTransfer to a chemical wast Section 7. Hai Avoid breathing dust/fume/g	e container for dispondent of the second sec	torage	with local regulations.		
6.3	Methods and Containmen Up: Precautions in Handling:	t and Cleanin To Be Taken	gTransfer to a chemical wast Section 7. Hai Avoid breathing dust/fume/g Avoid prolonged or repeated	e container for dispondent of the second sec	torage	with local regulations.		
6.3	Methods and Containmen Up: Precautions in Handling:	t and Cleanin To Be Taken	gTransfer to a chemical wast Section 7. Hai Avoid breathing dust/fume/g	e container for disponding and Standard Standa	torage ^{ay.}	with local regulations.		



	Oeciic	n 8. Exposure Controls/Personal Protection				
8.1	Exposure Parameters:					
8.2	Exposure Controls:					
8.2.1	-					
3.2.2	Personal protection equipment:					
	Eye Protection: S	afety glasses				
	Protective Gloves: C	ompatible chemical-resistant gloves				
	Other Protective Clothing:Lab coat					
	Respiratory Equipment N	IOSH approved respirator, as conditions warrant.				
	(Specify Type):					
	Work/Hygienic/Maintenan D	o not take internally.				
		acilities storing or utilizing this material should be equipped with an eyewash and a safety showe				
		/ash thoroughly after handling.				
	N	o data available.				
	Sec	ction 9. Physical and Chemical Properties				
9.1	Information on Basic Physic	al 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 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:	~0.3 mg/ml in a 1:2 solution of EtOH:PBS (pH 7.2); ~20 mg/ml in EtOH; ~0.1 mg/ml in DMSO; ~2 mg/ml in DMF;				
	Octanol/Water Partition	No data.				
	Coefficient:					
	Autoignition Pt:	No data. e: No data.				
	Decomposition Temperature	No data.				
	Viscosity:					
9.2	Other Information	No data				
	Percent Volatile:					
	Molecular Formula & Weigh	t: C28H44O 396.7				

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			Section 10. Stability		-7			
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	Incompa	tibility - Materials	s acids					
To Avoid:		1:	strong oxidizing agents					
10.6	Hazardous		carbon dioxide					
	-	osition or	carbon monoxide					
	Byprodu	cts:						
			Section 11. Toxicolog	ical Informa	ation			
11.1	Informat	ion on	The toxicological effects of this prod	uct have not beer	n thoroughly st	udied.		
	Toxicolo	gical Effects:						
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
57	07.4							
•.	-87-4	Ergosterol		n.a.	n.a.	n.a.	n.a.	
	-87-4	Ergosterol	Section 12 Ecologic			n.a.	n.a.	
			Section 12. Ecologic			n.a.	n.a.	
12.1	Toxicity:		Avoid release into the environment.	al Informat	ion	n.a.	n.a.	
12.1	Toxicity		Avoid release into the environment. Runoff from fire control or dilution w	al Informat	ion	n.a.	n.a.	
	Toxicity: Persiste	nce and	Avoid release into the environment.	al Informat	ion	n.a.	n.a.	
12.1 12.2	Toxicity: Persiste Degrada	nce and bility:	Avoid release into the environment. Runoff from fire control or dilution w No data available.	al Informat	ion	n.a.	n.a.	
12.1	Toxicity: Persiste	nce and bility: mulative	Avoid release into the environment. Runoff from fire control or dilution w	al Informat	ion	n.a.	n.a.	
12.1 12.2 12.3	Toxicity: Persiste Degrada Bioaccu Potentia	nce and bility: mulative I:	Avoid release into the environment. Runoff from fire control or dilution w No data available. No data available.	al Informat	ion	n.a.	n.a.	
12.1 12.2 12.3 12.4	Toxicity: Persiste Degrada Bioaccu Potentia Mobility	nce and bility: mulative I: in Soil:	Avoid release into the environment. Runoff from fire control or dilution w No data available.	al Informat	ion	n.a.	n.a.	
12.1 12.2 12.3	Toxicity: Persiste Degrada Bioaccu Potentia Mobility	nce and bility: mulative I: in Soil: of PBT and vPvB	Avoid release into the environment. Runoff from fire control or dilution w No data available. No data available. No data available.	al Informat	ion	n.a.	n.a.	
12.1 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	Avoid release into the environment. Runoff from fire control or dilution w No data available. No data available. No data available.	al Informat	ion	n.a.	n.a.	
12.1 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:	Avoid release into the environment. Runoff from fire control or dilution w No data available. No data available. No data available. No data available. No data available.	ater may cause p	ion ollution.	n.a.	n.a.	
12.1 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:	Avoid release into the environment. Runoff from fire control or dilution w No data available. No data available. No data available. No data available. No data available. Section 13. Disposal	al Informat ater may cause p Considerat	ion ollution.	n.a.	n.a.	
12.1 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:	Avoid release into the environment. Runoff from fire control or dilution w No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Dispose in accordance with local, st	ater may cause p Considerat	ion ollution. ions egulations.	n.a.	n.a.	
12.1 12.2 12.3 12.4 12.5 12.6	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad	nce and bility: mulative l: in Soil: of PBT and vPvB nent: verse effects:	Avoid release into the environment. Runoff from fire control or dilution w No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Dispose in accordance with local, st Section 14. Transpo	ater may cause p Considerat	ion ollution. ions egulations.	n.a.	n.a.	
12.1 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 hent: verse effects: isposal Method: RANSPORT (US I	Avoid release into the environment. Runoff from fire control or dilution w No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Dispose in accordance with local, st Section 14. Transport	ater may cause p Considerat	ion ollution. ions egulations.	n.a.	n.a.	
12.1 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	nce and bility: mulative l: in Soil: of PBT and vPvB tent: verse effects: isposal Method: RANSPORT (US I	Avoid release into the environment. Runoff from fire control or dilution w No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Dispose in accordance with local, st Section 14. Transport	ater may cause p Considerat	ion ollution. ions egulations.	n.a.	n.a.	
12.1 12.2 12.3 12.4 12.5 12.6 13.1 14.1 D	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazard	nce and bility: mulative l: 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 w No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Dispose in accordance with local, st Section 14. Transport	ater may cause p Considerat	ion ollution. ions egulations.	n.a.	n.a.	
12.1 12.2 12.3 12.4 12.5 12.6 13.1 14.1 D ⁱ U	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazard	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:	Avoid release into the environment. Runoff from fire control or dilution w No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Dispose in accordance with local, st Section 14. Transpo DOT): Not dangerous goods.	ater may cause p Considerat	ion ollution. ions egulations.	n.a.	n.a.	
12.1 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 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	Avoid release into the environment. Runoff from fire control or dilution w No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Dispose in accordance with local, st Section 14. Transpo DOT): Mot dangerous goods.	ater may cause p Considerat	ion ollution. ions egulations.	n.a.	n.a.	
12.1 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 Hazard 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:	Avoid release into the environment. Runoff from fire control or dilution w No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Dispose in accordance with local, st Section 14. Transpo DOT): Not dangerous goods.	ater may cause p Considerat	ion ollution. ions egulations.	n.a.	n.a.	
12.1 12.2 12.3 12.4 12.5 12.6 13.1 14.1 D 14.1 D U 14.1 A U	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazard N/NA Nun LAND T DR/RID SI	nce and bility: mulative l: in Soil: of PBT and vPvB hent: verse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: hber: RANSPORT (Euro hipping Name: :	Avoid release into the environment. Runoff from fire control or dilution w No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Dispose in accordance with local, st Section 14. Transpo DOT): Not dangerous goods.	ater may cause p Considerat	ion ollution. ions egulations.	n.a.	n.a.	

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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)	
57-87-4	Ergosterol		No	No	No	
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or	State Lists		
57-87-4	Ergosterol		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Information Statement:		This SDS was prepared in acc No.1272/2008.	ordance with 29 CFR	1910.1200 and R	egulation (EC)	
		Section 16. Ot	her Informatic	n		
Revision Date):	10/24/2016				
Additional Inf	ormation About	No data available.				
This Product:						
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 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.				