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			g to Regulation (EC) No. 1907/2006 as a		030 and 03 031A HC3	2015		
		Section 1.	dentification of the Substar	nce/Mixture and of	the Company/U	ndertaking		
1.1	Product Code:27561Product Name:C22 1-Deoxyceramide (m18:1(14Z)/22:0)Synonyms:N-((2S,3R,Z)-3-hydroxyoctadec-14-en-2-yl)docosanamide; C22 Ceramide (m18:1/22:0)Cer(m18:1/22:0); N-docosanoyl-1-deoxy-4,5-dihydro-14Z-Sphingosine;							
1.2	Relevan	t identified uses of	f the substance or mixture a	and uses advised a	igainst:			
	Relevant identified uses: For research use only, not for human or veterinary 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	bany				
	Web s	ite address:	www.caymanchem.com					
	Inform	ation:	Cayman Chemical Comp	bany	+1 (73-	4)971-3335		
1.4	-	ncy telephone nun Jency Contact:	nber: CHEMTREC Within USA CHEMTREC Outside US			0)424-9300 3)527-3887		
			Section 2. Ha	zards Identifi	cation			
2.1	Classific	cation of the Subst	ance or Mixture:					
2.2	Label El	ements:						
2.3	GHS F Based GHS F No phr GHS F No phr GHS S Please Adverse	Precautionary Phra rases apply. Response Phrases: rases apply. Storage and Dispos	sal Phrases: or 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 irritat	on. ines and upper res absorption. tion.	-		
		Secti	ion 3. Composition	/Information	on Ingredie	nts		
CAS # / RTECS #		Hazardous Components (Chemical Name)/ REACH Registration No.		Concentration	EC No./ EC Index No.	GHS Classification		
	CS #				NA NA			

Multi-region format



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		Section 4. First Aid Measures						
4.1	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:	mediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated						
	In Case of Eve Contact	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						
	in ouse of ingestion.	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	: 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.						
		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.						
6.2	Precautions:	- Contain shill and callest as annonvista						
6.3		r Contain spill and collect, as appropriate. IngTransfer to a chemical waste container for disposal in accordance with local regulations.						
	Up:							
	ор. 	Section 7. Handling and Storage						
7.1		Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure.						
7.2	in Handling:	Keep container tightly closed.						
1.2	in Storing:	Store in accordance with information listed on the product insert.						
		tion 8. Exposure Controls/Personal Protection						
8.1	Exposure Parameters:							
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.						

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	(Ventilation etc.):							
8.2.2	Personal protection equipment:							
	Eye Protection: Safe	glasses						
	-	patible 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: Faci	ies storing or utilizing this material should be equipped with an eyewash and a safety showe						
	Was	thoroughly after handling.						
	No d	ata available.						
	Section 9. Physical and Chemical Properties							
9.1	Information on Basic Physical a	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):	No data.						
	Solubility in Water:	No data.						
	Solubility Notes:	~0.5 mg/ml in a 1:1 solution of EtOH:PBS (pH 7.2); ~30 mg/ml in EtOH; ~20 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.						
	Molecular Formula & Weight:	C40H79NO2 606.1						



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Section 10. Stability and Reactivity									
10.1	Reactivit	y:	No data available.		- J				
10.2	Stability	-	Unstable [] Stable [X]						
10.3									
	Polymerization:		Will occur [] Will not occur [X]						
10.4	-		No data available.						
10.5									
	To Avoid:								
10.6	Hazardo	us	No data available.						
	Decomp	osition or							
	Byproducts:								
Section 11. Toxicological Information									
11.1	Informat	ion on	The toxicological effects of this product	have not beer	n thoroughly st	udied.			
	Toxicolo	gical Effects:							
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
<u> </u>	NA	C22 1-Deoxycera	mide (m18:1(14Z)/22:0)	n.a.	n.a.	n.a.	n.a.		
			Section 12. Ecological	Informat	 ion				
12.1	Toxicity:		Avoid release into the environment.	monnat					
	Toxiony.		Runoff from fire control or dilution water	mav cause po	ollution.				
12.2	Persiste	nce and	No data available.						
	Degrada								
12.3	-	-	No data available.						
	2.3 Bioaccumulative No data available. Potential:								
			No data available.						
12.5	-		No data available.						
	assessm								
12.6		verse effects:	No data available.						
	Section 13. Disposal Considerations								
13.1	Waste D	isposal Method:	Dispose in accordance with local, state,						
		-	Section 14. Transport	Informat	ion				
14.1	LAND T	RANSPORT (US D	•						
D	OT Proper	Shipping Name:	Not dangerous goods.						
	OT Hazard		5 5						
υ	N/NA Num	ber:							
14.1 LAND TRANSPORT (European ADR/RID):									
A	DR/RID Sh	ipping Name:	Not dangerous goods.						
υ	N Number	:							
н	azard Clas	s:							

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14.3 AIR TR	ANSPORT (ICAO/	IATA):					
ICAO/IATA Shipping Name:		Not dangerous goods.					
UN Number:			Packing Gr	oup:			
Hazard Cla	ISS:						
Additional Tra	nsport	Transport in accordance with I	ocal, state, and fede	ral regulations.			
Information:							
		Section 15. Regu	latory Inform	ation			
EPA SARA (Si	uperfund Amendn	nents and Reauthorization Act	of 1986) Lists				
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
NA	C22 1-Deoxyceramide (m18:1(14Z)/22:0)		No	No	No		
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or State Lists				
NA	C22 1-Deoxyceramide (m18:1(14Z)/22:0)		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulatory Inf	ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)					
Statement:		No.1272/2008.					
		Section 16. Ot	her Information	on			
Revision Date:		11/22/2019					
Additional Info	rmation About	No data available.					
This Product:							
Company Polic	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.