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		Section 1. Ide	entification of the Substar	nce/Mixture and o	f the Company/U	ndertaking	
1	Product Product Synonyi	Name:	12-((7-nitrobenzo[c][1,2, odecanamide; C12 NBD	24327 C12 NBD Phytoceramide (t18:0/12:0) 2-((7-nitrobenzo[c][1,2,5]oxadiazol-4-yl)amino)-N-((2R,3R,4R)-1,3,4-trihydroxyoctadecan-2-yl) odecanamide; C12 NBD Phytosphingosine (t18:0/12:0) N-dodecanoyl-NBD Phytosphingosine; NBD Cer(t18:0/12:0); NBD Ceramide (t18:0/12:0);			
2			he substance or mixture a		-		
~	Relevant identified uses:For research use only, not for human or veterinary use.Details of the Supplier of the Safety Data Sheet:						
.3		of the Supplier of the any Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	bany			
	Web s	ite address:	www.caymanchem.com	m			
	Inform	nation:	Cayman Chemical Comp	bany	+1 (73	4)971-3335	
.4	-	ncy telephone numb					
	Emerg	ency Contact:	CHEMTREC Within USA CHEMTREC Outside US			00)424-9300	
					+1 (70	3)527-3887	
	Label El GHS S	cation of the Substan lements: Signal Word: Hazard Phrases:	nce or Mixture: None				
.2	Label El GHS S GHS H Based GHS F No phi GHS S Please Adverse	lements: Signal Word: Hazard Phrases: I 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	None ently available data this sub I Phrases: Storage and Section 13 for Material may be irritating to t May be harmful by inhalation May cause eye, skin, or resp	r Disposal informati the mucous membra n, ingestion, or skin biratory system irrita	on. anes and upper res absorption. ation.	spiratory tract.	
.2	Label El GHS S GHS H Based GHS F No phi GHS S Please Adverse	lements: Signal Word: Hazard Phrases: I 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	None ently available data this sub I Phrases: 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	r Disposal informati the mucous membra n, ingestion, or skin biratory system irrita e, the toxicological p	on. anes and upper res absorption. ation. properties have not	spiratory tract. t been thoroughly investigated	
.1 .2 .3	Label El GHS S GHS H Based GHS F No phi GHS S Please Adverse Effects	lements: Signal Word: Hazard Phrases: I 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	None ently available data this sub I Phrases: Storage and Section 13 for Material may be irritating to the May be harmful by inhalation May cause eye, skin, or resp to the best of our knowledge on 3. Composition	r Disposal informati the mucous membro n, ingestion, or skin biratory system irrita e, the toxicological p n/Information	on. anes and upper res absorption. ation. properties have not on Ingredie	spiratory tract. t been thoroughly investigated <b>nts</b>	
.2 .3	Label El GHS S GHS H Based GHS F No phi GHS S Please Adverse	lements: Signal Word: Hazard Phrases: I 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	None ently available data this sub I Phrases: 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	r Disposal informati the mucous membra n, ingestion, or skin biratory system irrita e, the toxicological p	on. anes and upper res absorption. ation. properties have not	spiratory tract. t been thoroughly investigated	



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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 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.				
	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:					



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	HEMICAL						
8.2	Exposure Controls:						
8.2.1	Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne					
	(Ventilation etc.):	levels below recommended exposure limits.					
8.2.2	Personal protection equipment:						
	Eye Protection:	/ glasses					
	Protective Gloves:	atible chemical-resistant gloves					
	Other Protective Clothing:Lab coat						
	Respiratory Equipment	H approved respirator, as conditions warrant.					
	(Specify Type):						
	Work/Hygienic/Maintenan Do not take internally.						
		ies storing or utilizing this material should be equipped with an eyewash and a safety showe					
		Wash thoroughly after handling.					
		No data available.					
	<u> </u>						
ļ		ection 9. Physical and Chemical Properties					
9.1	-	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	): No data.					
	Solubility in Water:	No data.					
	Solubility Notes:	Soluble in: MeOH; 2:1 solution of chloroform:MeOH;					
	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: C36H63N5O7 677.9					



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			Section 10. Stability an	d Reactiv	vity			
10.1	Reactivit	iy:	No data available.					
10.2	Stability	:	Unstable [ ] Stable [ X ]					
10.3								
	Polymer	ization:	Will occur [ ] Will not occur [ X ]					
10.4	Conditio	ns To Avoid:	No data available.					
10.5								
	To Avoid	1:						
10.6	Hazardous		No data available.					
	Decomp	osition or						
	Byprodu	cts:						
			Section 11. Toxicologica	al Informa	ation			
11.1	Informat	ion on	The toxicological effects of this product	have not beer	thoroughly st	udied.		
	Toxicolo	gical Effects:						
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
<u> </u>	NA		eramide (t18:0/12:0)	n.a.	n.a.	n.a.	n.a.	
L			Section 12. Ecological	Informat	ION			
12.1	Toxicity:		Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.					
12.2	Persiste		No data available.					
	Degrada	-						
12.3	Bioaccu		No data available.					
	Potentia		<b>N</b> 17 11					
12.4	Mobility		No data available.					
12.5	12.5 Results of PBT and vPvB No data available.							
12.6	assessment:							
12.0								
			Section 13. Disposal Co					
13.1	Waste D	isposal Method:	Dispose in accordance with local, state,	and federal re	egulations.			
			Section 14. Transport	Informat	ion			
14.1	LAND T	RANSPORT (US I	DOT):					
D	OT Prope	r Shipping Name:	Not dangerous goods.					
D	OT Hazaro	d Class:						
U	N/NA Nun	nber:						
14.1	LAND T	RANSPORT (Euro	opean ADR/RID):					
		nipping Name:	Not dangerous goods.					
	N Number							
н	azard Cla	SS:						
1								



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14.3 AIR TRANSPORT (ICAO/IATA	<b>\)</b> :
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ICAO/IATA Shipping Name:

Not dangerous goods.
Transport in accordance with local, state, and federal regulations.

Additional Transport Information:

## Section 15. Regulatory Information

CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
NA	C12 NBD Phytoceramide (t18:0/12:0)		No	No	No	
CAS # Hazardous Com		ponents (Chemical Name)	Other US EPA or State Lists			
NA	C12 NBD Phytoceramide (t18:0/12:0)		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 CFF	1910.1200 and R	egulation (EC)	
		Section 16. Oth	ner Informatio	on		
Revision Date:		01/28/2018				
Additional Information About		No data available.				
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 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.				