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uct Code: uct Name: nyms:	odecanamide; N-dodeca NBD L-threo Cer(d18:1/ the substance or mixture a For research use only, n e Safety Data Sheet: Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 www.caymanchem.com Cayman Chemical Comp	aide (d18:1/12:0) oxyoctadec-4-en-2- inoyl-NBD L-threo-8 12:0); NBD L-threo and uses advised ot for human or vet oany	yl)-12-((7-nitroben Sphingosine; Ceramide (d18:1/1 against: terinary use.	zo[c][1,2,5]oxadiazol-4-yl)amino)o
uct Name: nyms: vant identified uses of t evant identified uses: Is of the Supplier of the npany Name: b site address: ormation: gency telephone numb	C12 NBD L-threo Ceram N-((2R,3R,E)-1,3-dihydro odecanamide; N-dodeca NBD L-threo Cer(d18:1// the substance or mixture a For research use only, n e Safety Data Sheet: Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 www.caymanchem.com Cayman Chemical Comp Der: CHEMTREC Within US/	oxyoctadec-4-en-2- inoyl-NBD L-threo- 12:0); NBD L-threo and uses advised ot for human or vet bany	Sphingosine; Ceramide (d18:1/1 against: terinary use.	2:0);
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gency telephone numb	Der: CHEMTREC Within USA		+1 (73	
	CHEMTREC Within USA	and Canada:		4)971-3335
			-	00)424-9300 03)527-3887
	Section 2. Ha	zards Identif	ication	
S Precaution Phrases: phrases apply. S Response Phrases: phrases apply. S Storage and Disposa ase refer to Section 7 for erse Human Health cts and Symptoms:	al Phrases: r Storage and Section 13 fo Material may be irritating to May be harmful by inhalation May cause eye, skin, or resp To the best of our knowledg	r Disposal informati he mucous membr n, ingestion, or skin piratory system irrita e, the toxicological	ion. anes and upper re absorption. ation. properties have no	spiratory tract. t been thoroughly investigated.
Sectio	on 3. Composition	/Information	on Ingredie	nts
	· · · ·	Concentration	EC No./ EC Index No.	GHS Classification
C12 NBD L-threo Cera	mide (d18:1/12:0)	100.0 %	NA NA	No data available.
	ase refer to Section 7 fo erse Human Health cts and Symptoms: Section Hazardous Compo REACH Registration	phrases apply.S Storage and Disposal Phrases:ase refer to Section 7 for Storage and Section 13 forerse Human HealthMaterial may be irritating to thects and Symptoms:May be harmful by inhalationMay cause eye, skin, or respTo the best of our knowledge	phrases apply. S Storage and Disposal Phrases: ase refer to Section 7 for Storage and Section 13 for Disposal informat Base refer to Section 7 for Storage and Section 13 for Disposal informat Base refer to Section 7 for Storage and Section 13 for Disposal informat Base refer to Section 7 for Storage and Section 13 for Disposal informat Base refer to Section 7 for Storage and Section 13 for Disposal informat Base refer to Section 7 for Storage and Section 13 for Disposal informat Base refer to Section 7 for Storage and Section 13 for Disposal informat Base refer to Section 7 for Storage and Section 13 for Disposal informat Base refer to Section 7 for Storage and Section 13 for Disposal informat Base refer to Section 7 for Storage and Section 13 for Disposal informat Base refer to Section 7 for Storage and Section 13 for Disposal information Base refer to Section 7 for Storage and Section 13 for Disposal information Base refer to Section 7 for Storage and Section 13 for Disposal information Base refer to Section 7 for Storage and Section 13 for Disposal information Base refer to Section 7 for Storage and Section 13 for Disposal information Base refer to Section 7 for Storage and Section 13 for Disposal information Base refer to Section 7 for Storage and Section 13 for Disposal information Base refer to Section 7 for Storage and Section 13 for Disposal information Base refer to Section 7 for Storage and Section 13 for Disposal information Base refer to Section 7 for Storage and Section 13 for Disposal information Base refer to Section 7 for Storage and Section 13 for Disposal information Base refer to Section 7 for Storage and Section 13 for Disposal information Base refer to Section 7 for Storage and Section 13 for Disposition for Base refer to Section 10 f	phrases apply. S Storage and Disposal Phrases: ase refer to Section 7 for Storage and Section 13 for Disposal information. erse Human Health Material may be irritating to the mucous membranes and upper rects and Symptoms: May be harmful by inhalation, ingestion, or skin absorption. May cause eye, skin, or respiratory system irritation. To the best of our knowledge, the toxicological properties have no Section 3. Composition/Information on Ingredie Hazardous Components (Chemical Name)/ REACH Registration No. Concentration C12 NBD L-threo Ceramide (d18:1/12:0) 100.0 %

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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:	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	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	Take steps to avoid release into the environment, if safe to do so.				
	Precautions:					
6.3		r Contain spill and collect, as appropriate.				
	Containment and Cleanir	ng Transfer 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							
	Eye Protection:	Safety 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 shower					
		Wash thoroughly after handling.					
		ata available.					
	<u> </u>	action 0. Dhysical and Chamical Dranartica					
		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	I): No data.					
	Solubility in Water:	No data.					
	Solubility Notes:	Soluble in: a 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: C36H61N5O6 659.9					

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			Section 10. Stability and	d Reactiv	vity			
10.1	Reactivi	ty:	No data available.					
10.2	Stability	:	Unstable [] Stable [X]					
10.3	0.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert.							
	Polymerization: Will occur [] Will not occur [X]							
10.4	.4 Conditions To Avoid: No data available.							
10.5	0.5 Incompatibility - Materials No data available.							
	To Avoid	d:						
10.6	Hazardo		No data available.					
	-	osition or						
	Byprodu	icts:						
			Section 11. Toxicologica	I Informa	ation			
11.1	Informat	ion on	The toxicological effects of this product h	nave not beer	n thoroughly st	udied.		
	Toxicolo	gical Effects:						
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
	NA	C12 NBD L-threo	Ceramide (d18:1/12:0)	n.a.	n.a.	n.a.	n.a.	
		·	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	nce and	No data available.					
	Degrada	bility:						
12.3	Bioaccu	mulative	No data available.					
	Potentia	l:						
12.4	Mobility	in Soil:	No data available.					
12.5	Results	of PBT and vPvB	No data available.					
	assessment:							
12.6	.6 Other adverse effects: No data available.							
			Section 13. Disposal Co	nsiderati	ions			
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 Hazar	d Class:						
U	N/NA Nun	nber:						
14.1	LAND T	RANSPORT (Euro	opean ADR/RID):					
A	DR/RID S	hipping Name:	Not dangerous goods.					
U U	N Numbe	r:						
н	azard Cla	SS:						
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14.3 AIR TRANSPORT (ICAO/IATA	\) :
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ICAO/IATA Shipping Name: N

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

Additional Transport Information:

Section 15. Regulatory Information

CAS #	Hazardous Components (Chemical Name)		S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
NA	C12 NBD L-threo Ceramide (d18:1/12:0)		No	No	No	
CAS # Hazardous Components (Chemical Name)		Other US EPA or State Lists				
NA	C12 NBD L-threo Ceramide (d18:1/12:0)		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Inf Statement:	formation	This SDS was prepared in acco No.1272/2008.	rdance with 29 CFR	1910.1200 and Regu	lation (EC)	
		Section 16. Oth	ner Information	n		
Revision Date: 04/14		04/14/2018				
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.				