

Revision: 05/12/2018

		ac	cording to Regulation (EC) No. 190	7/2006 as amended by	(EC) No. 1272/200	8
		Section 1.	Identification of the Substan	ce/Mixture and of t	he Company/Ur	ndertaking
1.1	Product Code: 24838   Product Name: Fucosylated Ganglioside GM1 (ammonium salt)   Synonyms: 1-O-[O-(N-acetylalphaneuraminosyl)-(2->3)-O-[O-6-deoxyalphaL-galactopyranosyl-(1->2-   ObetaD-galactopyranosyl-(1->3)-2-(acetylamino)-2-deoxybetaD-galactopyranosyl-(1->4-   ObetaD-galactopyranosyl-(1->4)betaD-glucopyranosyl]-ceramide; Fucosylated   Monosialoganglioside GM1;					
1.2	Relevan	t identified uses	of the substance or mixture a		jainst:	
	Relevant identified uses: For research use only, not for human or veterinary use.					
1.3	Compa	any Name:	the Safety Data Sheet: Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	any		
		ite address:	www.caymanchem.com		. 4 /70	1)074 0005
	Inform		Cayman Chemical Comp	апу	+1 (734	4)971-3335
1.4	-	ncy telephone nu ency Contact:	mber: CHEMTREC Within USA CHEMTREC Outside US			0)424-9300 3)527-3887
			Section 2. Haz	zards Identific	ation	
2.1 2.2	Classific Label El		stance or Mixture:			
GHS Signal Word: None   GHS Hazard Phrases: Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS   GHS Precaution Phrases: No phrases apply.   GHS Response Phrases: No phrases apply.   GHS Storage and Disposal Phrases: Please refer to Section 7 for Storage and Section 13 for Disposal information.   2.3 Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract.   Effects and Symptoms: May be harmful by inhalation, ingestion, or skin absorption.   To the best of our knowledge, the toxicological properties have not been thorough						piratory tract. been thoroughly investigated.
		Sec	tion 3. Composition	/Information c	on Ingredier	nts
		Hazardous Components (Chemical Name)/ REACH Registration No.		Concentration	EC No./ EC Index No.	GHS Classification
718 <sup>.</sup> NA	12-11-8	Fucosylated Gangli	oside GM1 (ammonium salt)	100.0 %	NA NA	No data available.
						Multi-region form



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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:	g A solid water stream may be inefficient.				
5.2	Flammable Properties an Hazards:	IdNo 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 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 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 Taker	Avoid breathing dust/fume/gas/mist/vapours/spray.				
	in Handling:	Avoid prolonged or repeated exposure.				
7.2	Precautions To Be Taker	NKeep 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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8.2	Exposure Controls:					
8.2.1		se process enclosures, local exhaust ventilation, or other engineering controls to control airborne				
	(Ventilation etc.):	vels below recommended exposure limits.				
8.2.2	Personal protection equipm	ient:				
	Eye Protection: S	afety glasses				
	Protective Gloves: C	ompatible chemical-resistant gloves				
	Other Protective Clothing:L	ab coat				
	Respiratory Equipment N	SH approved respirator, as conditions warrant.				
	(Specify Type):	ot take internally. ities storing or utilizing this material should be equipped with an eyewash and a safety shower.				
	Work/Hygienic/Maintenan D					
	ce Practices: F					
	V	/ash thoroughly after handling.				
	Ν	o data available.				
	Sec	ction 9. Physical and Chemical Properties				
9.1	Information on Basic Physic	· · · · · · · · · · · · · · · · · · ·				
	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					
	Hg):					
	Vapor Density (vs. Air = 1):	No data.				
	Specific Gravity (Water = 1)					
	Solubility in Water:	No data.				
	Solubility Notes:	Soluble in: a 2:1:0.1 solution of chloroform:MeOH:DI water;;				
	Octanol/Water Partition	No data.				
	Coefficient:					
	Autoignition Pt:	No data.				
	Decomposition Temperature	e: No data.				
	Viscosity:	No data.				
9.2	Other Information					
	Percent Volatile:	No data.				
	Molecular Formula & Weigh	t: C79H140N3O35 • NH4 1710.0				

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			Section 10. Stability a					
10.1	Reactiv	ity:	No data available.					
10.2	Stability	/:	Unstable [ ] Stable [ X ]					
0.3 Stability Note(s):			Stable if stored in accordance with information listed on the product insert.					
Polymerization:		rization:	Will occur [ ] Will not occur [ X ]					
10.4	Conditio	ons To Avoid:	Forms micellar solutions in water.					
10.5								
To Avo 10.6 Hazard			and an allowing					
10.6	Hazardous Decomposition or		carbon dioxide carbon monoxide					
	Byprod		carbon monoxide					
			Section 11. Toxicologi	al Informa	ation			
11.1	Informa	tion on	The toxicological effects of this produc			udied.		
	Toxicol	ogical Effects:						
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
	10 11 0							
7181	12-11-0	Fucosylated Gan	glioside GM1 (ammonium salt)	n.a.	n.a.	n.a.	n.a.	
7181	12-11-0	Fucosylated Gan	-			n.a.	n.a.	
7181	Toxicity	<u> </u>	glioside GM1 (ammonium salt) Section 12. Ecologica Avoid release into the environment.			n.a.	n.a.	
		<u> </u>	Section 12. Ecologica	I Informat	ion	n.a.	n.a.	
	Toxicity	<u> </u>	Section 12. Ecologica Avoid release into the environment.	I Informat	ion	n.a.	n.a.	
12.1	Toxicity	: ence and	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wat	I Informat	ion	n.a.	n.a.	
12.1	Toxicity Persiste Degrada	: ence and	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wat	I Informat	ion	n.a.	n.a.	
12.1 12.2	Toxicity Persiste Degrada	ence and ability: imulative	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wat No data available.	I Informat	ion	n.a.	n.a.	
12.1 12.2	Toxicity Persiste Degrada Bioaccu Potentia	ence and ability: imulative	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wat No data available.	I Informat	ion	n.a.	n.a.	
12.1 12.2 12.3	Toxicity Persiste Degrada Bioaccu Potentia Mobility Results	ence and ability: imulative al: in Soil: of PBT and vPvB	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wat No data available. No data available.	I Informat	ion	n.a.	n.a.	
12.1 12.2 12.3 12.4	Toxicity Persiste Degrada Bioaccu Potentia Mobility Results assessr	ence and ability: imulative al: in Soil: of PBT and vPvB	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wat No data available. No data available.	I Informat	ion	n.a.	n.a.	
12.1 12.2 12.3 12.4 12.5	Toxicity Persiste Degrada Bioaccu Potentia Mobility Results assessr	ence and ability: imulative al: in Soil: of PBT and vPvB nent:	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wat No data available. No data available. No data available. No data available. No data available.	I Informat	ion ollution.	n.a.	n.a.	
12.1 12.2 12.3 12.4 12.5	Toxicity Persiste Degrada Bioaccu Potentia Mobility Results assess Other ac	ence and ability: imulative al: in Soil: of PBT and vPvB nent:	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wat No data available. No data available. No data available. No data available.	I Informat	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 assess Other ac	ence and ability: imulative al: of PBT and vPvB nent: dverse effects:	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wat No data available. No data available. No data available. No data available. No data available. Section 13. Disposal C	I Informat	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 assess Other ac	ence and ability: imulative al: of PBT and vPvB nent: dverse effects: Disposal Method:	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wat No data available. No data available. No data available. No data available. No data available. Section 13. Disposal C Dispose in accordance with local, stat Section 14. Transpo	I Informat	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 assess Other ac Waste D	r: ence and ability: imulative al: of PBT and vPvB nent: dverse effects: Disposal Method:	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wat No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal C Dispose in accordance with local, stat Section 14. Transpo	I Informat	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 assess Other ac Waste D	ence and ability: imulative al: of PBT and vPvB nent: dverse effects: Disposal Method: TRANSPORT (US I er Shipping Name:	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wat No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal C Dispose in accordance with local, stat Section 14. Transpo	I Informat	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 assess Other ac Waste D LAND T	r: ence and ability: imulative al: of PBT and vPvB nent: dverse effects: Disposal Method: rRANSPORT (US I er Shipping Name: rd Class:	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wat No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal C Dispose in accordance with local, stat Section 14. Transpo	I Informat	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 assess Other ad Waste D LAND T OT Prope	r: ence and ability: imulative al: of PBT and vPvB nent: dverse effects: Disposal Method: rRANSPORT (US I er Shipping Name: rd Class:	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wat No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal C Dispose in accordance with local, stat Section 14. Transpo DOT): Not dangerous goods.	I Informat	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 assessr Other ad Waste D UNANUT	ence and ability: imulative al: of PBT and vPvB nent: dverse effects: Disposal Method: rRANSPORT (US I er Shipping Name: rd Class: mber:	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wat No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal C Dispose in accordance with local, stat Section 14. Transpo DOT): Not dangerous goods.	I Informat	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 assessr Other ad Waste D UNANUT	ence and ability: imulative al: of PBT and vPvB nent: dverse effects: Disposal Method: TRANSPORT (US I er Shipping Name: rd Class: mber: TRANSPORT (Euro chipping Name:	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wat No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal C Dispose in accordance with local, stat Section 14. Transpo DOT): Not dangerous goods.	I Informat	ion ollution. ions egulations.	n.a.	n.a.	



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)	
71812-11-8	Fucosylated Gan	glioside GM1 (ammonium salt)	No	No	No	
CAS #	Hazardous Com	zardous Components (Chemical Name)		State Lists	-	
71812-11-8	Fucosylated Ganglioside GM1 (ammonium salt)		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Information Statement:		This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.				
		Section 16. Oth	ner Information	า		
Revision Date:		05/12/2018				
Additional Info	rmation About	No data available.				
This Product:						
Company Polic	y 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.				