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Revision: 11/07/2019 Supersedes Revision: 04/19/2017

	accordi	ng to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/8	Supersedes Revision: 04/19/2017 330 and US OSHA HCS 2015				
		Identification of the Substance/Mixture and of t					
			the company/ondertaking				
1.1	Product Code:	9001394					
	Product Name:	N-Docosahexaenoyl Dopamine	3Z,16Z,19Z-docosahexaenamide; DHA-DA;NM				
	Synonyms:	8739;	SZ, TOZ, T9Z-UUCUSANEXAENAINIUE, DHA-DA, NN				
.2	Relevant identified uses of the substance or mixture and uses advised against:						
	Relevant identified uses	: For research use only, not for human or veter	inary 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				
1.4	Emergency telephone nu						
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300				
			+1 (703)527-3887				
		Section 2. Hazards Identific	cation				
2.1	Classification of the Subs	tance or Mixture:					
	Flammable Liquids, Cat	egory 2					
2.2	Label Elements:						
	GHS Signal Word: GHS Hazard Phrases:	Danger					
	H225: Highly flammable liquid and vapor.						
	GHS Precautionary Phrases:						
	P210: Keep away from {heat/sparks/open flames/hot surfaces} No smoking. P280: Wear {protective gloves/protective clothing/eye protection/face protection}.						
	GHS Response Phrases:						
	P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.						
	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 membrar					
	Effects and Symptoms:	May be harmful by inhalation, ingestion, or skin a					
		May cause eye, skin, or respiratory system irritation					
		To the best of our knowledge, the toxicological pr					



Multi-region format

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RTECS # REACH 129024-87-9 N-Docosa 64-17-5 Ethyl alco KQ6300000 01-21194 4.1 Description of F Measures: In Case of Inhala In Case of Skin In In Case of Skin In 4.2 Important Symp Effects, Both Actor Delayed: 5.1 Suitable Extingue Media: Unsuitable Extingue Media: Unsuitable Extingue	Section Secti	0.1 % 99.9 % n 4. First Aid M ir. If not breathing, give a dical attention. skin with soap and plent cal attention if symptoms and flush eyes with plent lical personnel. vith water provided person on. Get medical attention a, cough, CNS depression stion), liver damage, nar 5. Fire Fighting ant foam, carbon dioxide o cool fire-exposed conta	EC Index No NA NA 200-578-6 603-002-00-5 easures extrificial respiration or ty of water for at least s occur. Wash clothing ty of water for at least on is conscious. Never th. Do NOT induce vom on, drowsiness, headar cosis, reproductive effects in Measures e, water, or dry chemic	No data available. Flam. Liq. 2: H225 give oxygen by trained personnel. 15 minutes. Remove contaminate before reuse. 15 minutes. Have eyes examined give anything by mouth to an iting unless directed to do so by che, heart damage, lassitude fects, teratogenic effects.
NA 64-17-5 Ethyl alco KQ6300000 01-21194 4.1 Description of F Measures: In Case of Inhala In Case of Skin of In Case of Skin of In Case of Skin of In Case of Inges 4.2 Important Symp Effects, Both Ac Delayed: 5.1 Suitable Extingu Media: Unsuitable Extingu Media: 5.2 Flammable Prop	hol 57610-43-0000 Section irst Aid ation: Remove to fresh ai Get immediate med Contact: Immediately wash clothing. Get media clothing. Get media clothing. Get media clothing. Get media tion: Wash out mouth w unconscious perso medical personnel. toms and May cause anemia tute and (weakness, exhaus Section state Use alcohol-resistate Use water spray to	99.9 % n 4. First Aid M ir. If not breathing, give a dical attention. skin with soap and plent cal attention if symptoms and flush eyes with plent lical personnel. with water provided person on. Get medical attention a, cough, CNS depression stion), liver damage, nar 5. Fire Fighting ant foam, carbon dioxide p cool fire-exposed conta	NA 200-578-6 603-002-00-5 easures eastificial respiration or ty of water for at least s occur. Wash clothing thy of water for at least on is conscious. Never the Do NOT induce vom on, drowsiness, headar cosis, reproductive eff Measures e, water, or dry chemic	give oxygen by trained personnel. 15 minutes. Remove contaminate before reuse. 15 minutes. Have eyes examined give anything by mouth to an iting unless directed to do so by che, heart damage, lassitude fects, teratogenic effects.
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Media: Unsuitable Extir Media: 5.2 Flammable Prop	Use water spray to	o cool fire-exposed conta	-	cal spray.
Unsuitable Extir Media: 5.2 Flammable Prop		-	ainers.	
Media: 5.2 Flammable Prop	guishing A solid water strea	am may be inefficient.		
-				
Hazards:	erties andCan release vapor		-	s at or above the flashpoint.
		on may occur under fire	conditions.	
		under fire conditions.		
	Sensitive to static	to a source of ignition ar	nd flash back	
	No data available.	-		
Flash Pt:		Used: Closed Cup		
Explosive Limits		at 25.0 C UEL:	19.0% at 25.0 C	
Autoignition Pt:	363.00 C			
-	equivalent), and fu	ar self-contained breathir ull protective gear to prev as diluted in ethanol.		-demand (NIOSH approved or and eyes.



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		Sect	ion 6. Acc	identa	Release Measures	
6.1	Protective Precautions,	Avoid	raising and brea	athing dust	, and provide adequate ventilation.	
Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respir Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves)					paratus, or respirator,	
6.2	Environmental	Take steps to avoid release into the environment, if safe to do so.				
	Precautions:		•			
6.3	Methods and Material For	r Conta	in spill and colle	ct, as app	ropriate.	
	Containment and Cleanin	gTrans	fer to a chemical	l waste co	ntainer for disposal in accordance with local	regulations.
	Up:					
			Section 7.	Handl	ing and Storage	
7.1	Precautions To Be Taken				• •	
	in Handling:	Avoid	prolonged or rep	eated exp	osure.	
		Keep a	away from sourc	es of igniti	on.	
		Take p	precautionary me	easures ag	ainst static discharge.	
7.2	Precautions To Be Taken		•	•	nd flame.	
	in Storing:	-	container tightly			
				ith informa	tion listed on the product insert.	
	Other Precautions: Hygroscopic					
	Sect	tion 8	B. Exposur	e Cont	trols/Personal Protection	
8.1	Exposure Parameters:					
CAS #	Chemical Name		Jurisdiction		Recommended Exposure Limits	Notations
64-17	-5 Ethyl alcohol		ACGIH TLV		TLV: 1000 ppm STEL: 1000 ppm	
			France VL		TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm)	
			OSHA PELs		PEL: 1000 ppm	
			Britain EH40		TWA: 1920 mg/m3 (1000 ppm)	
8.2	Exposure Controls:				STEL: ()	
8.2.1	-					
0.2.1	(Ventilation etc.):	levels below recommended exposure limits.				
8.2.2	Personal protection equi					
	Eye Protection: Safety glasses					
	Protective Gloves:	Compatible chemical-resistant gloves				
	Other Protective Clothing					
Respiratory Equipment NIOSH approved respirator, as conditions warrant.						
(Specify Type):						
	Work/Hygienic/Maintenan	intenan Do not take internally.				
	ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety showed				
Wash thoroughly after handling. No data available.						

Multi-region format



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	S	Section 9. Physical and Chemical Properties
.1	Information on Basic Phy	ysical and Chemical Properties
	Physical States:	[]Gas [X]Liquid []Solid
	Appearance and Odor:	A solution in ethanol
	pH:	No data.
	Melting Point:	No data.
	Boiling Point:	No data.
	Flash Pt:	14.00 C Method Used: Closed Cup
	Evaporation Rate:	No data.
	Flammability (solid, gas)): No data available.
	Explosive Limits:	LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C
	Vapor Pressure (vs. Air o Hg):	or mm 43 MM_HG at 20.0 C
	Vapor Density (vs. Air =	1): No data.
	Specific Gravity (Water =	= 1): No data.
	Solubility in Water:	No data.
	Octanol/Water Partition Coefficient:	No data.
	Autoignition Pt:	363.00 C
	Decomposition Tempera	
	Viscosity:	No data.
9.2	Other Information	
	Percent Volatile:	No data.
	Molecular Formula & We	
		•
		Section 10. Stability and Reactivity
0.1	Reactivity:	No data available.
0.2	Stability:	Unstable [] Stable [X]
0.3	Stability Note(s):	Stable if stored in accordance with information listed on the product insert.
	Polymerization:	Will occur [] Will not occur [X]
0.4	Conditions To Avoid:	heat, flames, and sparks
0.5	Incompatibility - Materia	
	To Avoid:	ammonia
		peroxides
		strong oxidizing agents
0.6	Hazardous	carbon dioxide
	Decomposition or	carbon monoxide
	Byproducts:	



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			Contine 11 Taula	aniar Infama	otion				
			Section 11. Toxico	0					
11.1		ion on gical Effects: Toxicological	The toxicological effects of this p Ethanol - Toxicity Data: Oral TD (rat): 7,060 mg/kg; Oral LD50 (m (rabbit): 6,300 mg/kg; Inhalation ppm (30m); Inhalation TCLO (m (6h); Inhalation LCLO (mouse): Ethanol - Irritation Data: Eyes (r Ethanol - Investigated as a muta Only select Registry of Toxic Eff See actual entry in RTECS for o Ethanol RTECS Number: KQ63	LO (man): 1.14 ml/k nouse): 3,450 mg/kg LC50 (rat): 20,000 p uman): 2,500 mg/m3 29,300 ppm (7h); abbit): 500 mg (24h) agen, reproductive e fects of Chemical Su complete information	g; Oral TDLO (r ; Oral LD50 (m opm (10h); Inha (20m); Inhalati mild; Skin (rab ffector, and turr bstances (RTE	man): 650 mg/k ouse): 10.5 ml/ alation TCLO (h ion LC50 (rat): bit): 20 mg (24 norigen.	kg; Oral LD5 human): 1,800 5,900 mg/m3 h) moderate;		
CAS #	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
12902	24-87-9	N-Docosahexaen	noyl Dopamine	n.a.	n.a.	n.a.	n.a.		
64-	-17-5	Ethyl alcohol		n.a.	1	A4	n.a.		
			Section 12. Ecolo	dical Informa	tion	 	 		
12.1	Toxicity:		Avoid release into the environm	•					
	· · · · · · · · · · · · · · · · · · ·		Runoff from fire control or dilution water may cause pollution.						
				n water may cause	poliution.				
12.2	Persister	nce and	No data available.	n water may cause	poliution.				
12.2	Persister Degrada			n water may cause					
		bility:		n water may cause					
	Degrada	bility: mulative	No data available.	n water may cause					
12.2 12.3 12.4	Degrada Bioaccu	bility: mulative I:	No data available.	n water may cause	policitori.				
12.3 12.4	Degrada Bioaccur Potential Mobility	bility: mulative I: in Soil:	No data available. No data available.	n water may cause					
12.3 12.4	Degrada Bioaccur Potential Mobility	bility: mulative I: in Soil: of PBT and vPvB	No data available. No data available. No data available.	n water may cause	policitori.				
12.3 12.4 12.5	Degrada Bioaccur Potential Mobility Results of assessm	bility: mulative I: in Soil: of PBT and vPvB	No data available. No data available. No data available.	n water may cause	ροπατιοπ.				
12.3 12.4 12.5	Degrada Bioaccur Potential Mobility Results of assessm	bility: mulative I: in Soil: of PBT and vPvB ient:	No data available. No data available. No data available. No data available.						
12.3 12.4 12.5 12.6	Degrada Bioaccur Potential Mobility Results of assessm Other ad	bility: mulative I: in Soil: of PBT and vPvB ent: verse effects:	No data available. No data available. No data available. No data available. No data available.	al Considera	tions				
12.3 12.4 12.5 12.6	Degrada Bioaccur Potential Mobility Results of assessm Other ad	bility: mulative I: in Soil: of PBT and vPvB ent: verse effects:	No data available. No data available. No data available. No data available. No data available. Section 13. Dispos	al Considera	tions regulations.				
12.3 12.4 12.5 12.6	Degrada Bioaccur Potential Mobility Results of assessm Other ad	bility: mulative I: in Soil: of PBT and vPvB ent: verse effects:	No data available. No data available. No data available. No data available. No data available. Section 13. Dispose Dispose in accordance with loca Section 14. Tran	al Considera	tions regulations.				
12.3 12.4 12.5 12.6 13.1 14.1	Degradal Bioaccur Potential Mobility Results of assessm Other ad Waste Di	bility: mulative I: in Soil: of PBT and vPvB eent: verse effects: isposal Method:	No data available. No data available. No data available. No data available. No data available. Section 13. Dispose Dispose in accordance with loca Section 14. Tran	al Considera	tions regulations.				
12.3 12.4 12.5 12.6 13.1 14.1 DC	Degradal Bioaccur Potential Mobility Results of assessm Other ad Waste Di	bility: mulative l: in Soil: of PBT and vPvB ent: verse effects: isposal Method: RANSPORT (US E Shipping Name:	No data available. No data available. No data available. No data available. No data available. Section 13. Dispose Dispose in accordance with loca Section 14. Tran	al Considera	tions regulations.				
12.3 12.4 12.5 12.6 13.1 14.1 DC	Degradal Bioaccur Potential Mobility Results of assessm Other ad Waste Di LAND TF	bility: mulative l: in Soil: of PBT and vPvB eent: verse effects: isposal Method: RANSPORT (US E Shipping Name: I Class:	No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Dispose Dispose in accordance with loca Section 14. Tran	al Considera	tions regulations. tion				
12.3 12.4 12.5 12.6 13.1 14.1 DC	Degradal Bioaccur Potential Mobility Results of assessm Other ad Waste Di LAND TF DT Proper DT Hazard	bility: mulative l: in Soil: of PBT and vPvB eent: verse effects: isposal Method: RANSPORT (US E Shipping Name: I Class:	No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Dispose Dispose in accordance with loca Section 14. Tran Dot): Ethyl alcohol solution 3 FLAMMAB	al Considera al, state, and federal sport Informa	tions regulations. tion	11			
12.3 12.4 12.5 12.6 13.1 14.1 DC	Degradal Bioaccur Potential Mobility Results of assessm Other ad Waste Di LAND TF DT Proper DT Hazard	bility: mulative l: in Soil: of PBT and vPvB eent: verse effects: isposal Method: RANSPORT (US E Shipping Name: I Class:	No data available. No data available. No data available. No data available. No data available. Section 13. Dispose Dispose in accordance with loca Section 14. Tran Dot): Ethyl alcohol solution 3 FLAMMAB UN1170	al Considera al, state, and federal sport Informa	tions regulations. tion				
12.3 12.4 12.5 12.6 13.1 14.1 DC DC UN	Degradal Bioaccui Potential Mobility Results of assessm Other ad Waste Di LAND TF DT Proper DT Hazard V/NA Num	bility: mulative l: in Soil: of PBT and vPvB eent: verse effects: isposal Method: RANSPORT (US E Shipping Name: I Class: ber:	No data available. No data available. No data available. No data available. No data available. Section 13. Dispose Dispose in accordance with loca Section 14. Tran Dorp: Ethyl alcohol solution 3 FLAMMAB UN1170	al Considera al, state, and federal sport Informa LE LIQUID Packing Gro	tions regulations. tion up:				
12.3 12.4 12.5 12.6 13.1 14.1 DC UN 14.1	Degradal Bioaccui Potential Mobility Results of assessm Other ad Waste Di LAND TF DT Proper DT Hazard V/NA Num	bility: mulative l: in Soil: of PBT and vPvB eent: verse effects: isposal Method: RANSPORT (US D Shipping Name: l Class: ber: RANSPORT (Euro ipping Name: :	No data available. No data available. No data available. No data available. No data available. Section 13. Dispose Dispose in accordance with loca Section 14. Tran Section 14. Tran DOT): Ethyl alcohol solution 3 FLAMMAB UN1170	al Considera al, state, and federal sport Informa	tions regulations. tion up:				

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cayman				Supersed	les Revision: 04/19/2017			
14.3 AIR TRA	ANSPORT (ICAO/I	ATA):						
ICAO/IATA Shipping Name:		Ethyl alcohol solution						
UN Number	r:	1170	Packing Grou	ıp:	II			
Hazard Clas	SS:	3 - FLAMMABLE LIQUID	IATA Classifi	cation:	3			
Additional Trai	nsport	Transport in accordance with local, state, and federal regulations.						
Information:		When sold in quantities of less t	-	-				
		E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10.						
		Therefore packaging does not h	ave to be labeled as	Dangerous Goods/Ex	cepted Quantity.			
		Section 15. Regul	atory Informa	tion				
EPA SARA (Su	perfund Amendm	nents and Reauthorization Act o	of 1986) Lists					
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)			
129024-87-9	N-Docosahexaer	noyl Dopamine	No	No	No			
64-17-5	Ethyl alcohol		No	No	No			
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or S	State Lists				
129024-87-9 N-Docosahexaenoyl Dopar		noyl Dopamine	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No					
64-17-5 Ethyl alcohol			CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No					
Regulatory Info	ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)						
Statement:		No.1272/2008.						
		Section 16. Oth	ner Information	า				
Revision Date:		11/07/2019						
Additional Info	rmation 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.						