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:	Section 1.							
:		Identification of the Substance/Mixture and of the	ne Company/Undertaking					
	Product Code: Product Name: Synonyms:	21449 Retigabine N-[2-amino-4-[[(4-fluorophenyl)methyl]amino]p	henyl]-carbamic acid, ethyl ester;					
.2	Relevant identified uses of the substance or mixture and uses advised against:							
	Relevant identified uses							
.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					
.4	Emergency telephone nur	nber:						
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887					
		Section 2. Hazards Identification	ation					
.2	Aquatic Toxicity (Chron Label Elements:	re Irritation, Category 2 ic), Category 4						
.2								
.2								
.2	Label Elements:	ic), Category 4						
.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H319: Causes serious eye	ic), Category 4 Warning e irritation.						
.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H319: Causes serious eye H413: May cause long las	ic), Category 4 Warning e irritation. sting harmful effects to aquatic life.						
.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H319: Causes serious eye H413: May cause long las GHS Precaution Phrase	ic), Category 4 Warning e irritation. sting harmful effects to aquatic life. s:						
.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H319: Causes serious eye H413: May cause long lass GHS Precaution Phrases: P264: Wash {hands} thore	ic), Category 4 Warning e irritation. sting harmful effects to aquatic life. s: oughly after handling.						
.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H319: Causes serious eye H413: May cause long lass GHS Precaution Phrases: P264: Wash {hands} thoro P273: Avoid release to the	ic), Category 4 Warning e irritation. sting harmful effects to aquatic life. s: oughly after handling. e environment.	201					
.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H319: Causes serious eye H413: May cause long lass GHS Precaution Phrases: P264: Wash {hands} thoro P273: Avoid release to the P280: Wear {protective gl	ic), Category 4 Warning e irritation. sting harmful effects to aquatic life. s: oughly after handling. e environment. loves/protective clothing/eye protection/face protectio	on}.					
.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H319: Causes serious eye H413: May cause long las GHS Precaution Phrases P264: Wash {hands} thoro P273: Avoid release to the P280: Wear {protective gl GHS Response Phrases	warning e irritation. sting harmful effects to aquatic life. s: oughly after handling. e environment. loves/protective clothing/eye protection/face protectio						
2	Label Elements: GHS Signal Word: GHS Signal Word: GHS Hazard Phrases: H319: Causes serious eye H413: May cause long lass GHS Precaution Phrases P264: Wash {hands} thoro P273: Avoid release to the P280: Wear {protective gl GHS Response Phrases P305+351+338: IF IN EYE	ic), Category 4 Warning e irritation. sting harmful effects to aquatic life. s: oughly after handling. e environment. loves/protective clothing/eye protection/face protectio						
2	Label Elements: GHS Signal Word: GHS Signal Word: GHS Hazard Phrases: H319: Causes serious eye H413: May cause long las GHS Precaution Phrases P264: Wash {hands} thoro P273: Avoid release to the P280: Wear {protective gl GHS Response Phrases P305+351+338: IF IN EYE to do. Continue rinsing.	warning e irritation. sting harmful effects to aquatic life. s: oughly after handling. e environment. loves/protective clothing/eye protection/face protectio						
.2	Label Elements: GHS Signal Word: GHS Signal Word: GHS Hazard Phrases: H319: Causes serious eye H413: May cause long las GHS Precaution Phrases P264: Wash {hands} thoro P273: Avoid release to the P280: Wear {protective gl GHS Response Phrases P305+351+338: IF IN EYE to do. Continue rinsing.	Warning e irritation. sting harmful effects to aquatic life. s: oughly after handling. e environment. loves/protective clothing/eye protection/face protectio ES: Rinse cautiously with water for several minutes.						

Multi-region format

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	Advore	o Uuman Usalth	Causas sariaus aus irritation						
2.3	Adverse Human Health		Causes serious eye irritation.						
	Effects and Symptoms:		Material may be irritating to the mucous membranes and upper respiratory tract.						
			May be harmful by inhalation, ingestion, or skin absorption. May cause skin or respiratory system irritation.						
			May cause long lasting harm	-	life				
				•		t been thoroughly investigated.			
					-				
		Sect	tion 3. Composition	/Information of	on Ingredie	nts			
CAS	#/	Hazardous Com	azardous Components (Chemical Name)/		EC No./	GHS Classification			
RTEC	RTECS # REACH Registra		on No. E		EC Index No.				
	12-12-7	Retigabine		100.0 %	NA	Eye Damage 2A: H319			
EY854	48500		NA		NA	Aquatic (C) 4: H413			
			Section 4. Fi	rst Aid Measu	ures				
4.1	Descri	ption of First Aid							
	Measu	res:							
	In Case	e of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.						
	In Case	e 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	e 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	e of Ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an						
	Ū		unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by						
			medical personnel.						
			Section 5. Fire	Fighting Mea	asures				
5.1	Suitabl	e Extinguishing	Use alcohol-resistant foam, o	arbon dioxide, wate	r, or dry chemical	spray.			
	Media:		Use water spray to cool fire-exposed containers.						
	Unsuita	able Extinguishing	A solid water stream may be inefficient.						
	Media:								
5.2	Flamm	able Properties an	dNo data available.						
	Hazards:								
			No data available.						
	Flash F	Pt:	No data.						
	Explos	ive Limits:	LEL: No data.	UEL: No da	ata.				
	Autoig	nition Pt:	No data.						
5.3	Fire Fig	ghting 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.						
			equivalency, and full protocily						



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		Section 6. Accidental Release Measures					
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.					
	Protective Equipment and	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	Methods and Material For	Contain spill and collect, as appropriate.					
	Containment and CleaningTransfer 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.					
	Secti	on 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					
	(Ventilation etc.):	levels below recommended exposure limits.					
8.2.2	Personal protection equip	ment:					
	Eye Protection:	Safety glasses					
	Protective Gloves:	Compatible 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.					
		Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.					
		Wash thoroughly after handling.					
		No data available.					
	Se	ction 9. Physical and Chemical Properties					
9.1	-	cal 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.					
	Tapor Density (VS. All = 1)						
		Multi-region forma					



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	Specific	Gravity (Water =	1): No data.						
	Solubilit	y in Water:	No data.						
	Solubilit	y Notes:	Soluble in: DMSO; Me	OH (slightly,	heated);				
	Octanol/	Water Partition	No data.						
	Coefficie	ent:							
	Autoigni	ition Pt:	No data.						
	Decomp	osition Temperat	ure: No data.						
	Viscosit	y:	No data.						
9.2	Other Inf	ormation							
	Percent	Volatile:	No data.						
		ar Formula & Wei		03.3					
			Section 10. Stabi		Reactiv	vitv			
10.1	Reactivi	tv·	No data available.	inty and	Neacu	vity			
10.2	Stability	-	Unstable [] Stable [X]						
10.3	-	Note(s):	Stable if stored in accordance	with informat	tion listed (on the product i	nsert		
	Polymer		Will occur [] Will not occu						
10 4	-			~ [/]					
10.4		ons To Avoid:	No data available.						
10.5	-	-	strong oxidizing agents						
	To Avoid								
10.6	Hazardo		carbon dioxide						
	-	osition or	carbon monoxide						
	Byprodu	icts:	hydrogen fluoride						
			nitrogen oxides						
			Section 11. Toxico	ological	Informa	ation			
11.1	Informat	ion on	The toxicological effects of this product have not been thoroughly studied.						
	Toxicolo	gical Effects:	Retigabine - Toxicity Data: Intraperitoneal TDLO (mouse): 6.7 mg/kg; Oral TDLO (rat): 0.55 mg/kg;						
			Intraperitoneal TDLO (rat): 10						
	Chronic	Toxicological	Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.						
	Effects:		-	See actual entry in RTECS for complete information.					
			Retigabine RTECS Number: E	Y8548500					
CAS	#	Hazardous Com	ponents (Chemical Name)		NTP	IARC	ACGIH	OSHA	
1508	12-12-7	Retigabine			n.a.	n.a.	n.a.	n.a.	
			Section 12. Ecol	ogical In	format	ion			
12.1	Toxicity		Avoid release into the environr	nent.					
	-		Runoff from fire control or dilut	ion water ma	ay cause p	ollution.			
12.2									
	Degradability:								
12.3									
12.3									
10.4	Potential: 2.4 Mobility in Soil: No data available.								
12.4	-		No data available.						
12.5			No data available.						
	assessn	nent:							
12.6	Other ac	lverse effects:	No data available.						
							Ν	Iulti-region formation	



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		Section 13. Dispos	al Considerat	ions				
13.1 Waste D	isposal Method:	Dispose in accordance with loca						
Section 14. Transport Information								
14.1 LAND T	RANSPORT (US	DOT):						
DOT Prope DOT Hazar UN/NA Nur		: Not dangerous goods.						
14.1 LAND TRANSPORT (European ADR/RID):								
ADR/RID S UN Numbe Hazard Cla		Not dangerous goods.						
14.3 AIR TR	ANSPORT (ICAO/	IATA):						
ICAO/IATA	Shipping Name:	Not dangerous goods.						
Additional Trai	nsport	Transport in accordance with lo	cal, state, and federa	l regulations.				
		Section 15. Regul	atory Informa	tion				
EPA SARA (Su	perfund Amendn	nents and Reauthorization Act of	of 1986) Lists					
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)			
150812-12-7	Retigabine		No	No	No			
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or S	State Lists				
150812-12-7	Retigabine		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No					
Regulatory Info Statement:	ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.						
		Section 16. Oth	er Informatio	n				
Revision Date:		04/03/2017						
Additional Info This Product:	rmation About	No data available.						
Company Policy or Disclaimer:		DISCLAIMER: This information is currently available to us. However express or implied, with respect use. Users should make their or their particular purposes.	er, we make no warra to such information,	anty of merchantabi and we assume no	lity or any other warranty, liability resulting from its			