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accord	ling to Regulation (EC) No. 1907/2006 as amended by (E	EC) No. 1272/2008					
 Section 1. Ide	entification of the Substance/Mixture and of the	e Company/Undertaking					
Product Code: Product Name: Synonyms:	20765 Pizotifen (malate) 4-(9,10-dihydro-4H-benzo[4,5]cyclohepta[1,2-b] 2-hydroxy-butanedioic acid;	thien-4-ylidene)-1-methylpiperidine,					
Relevant identified uses of the substance or mixture and uses advised against:							
Relevant identified uses:	For research use only, not for human or veterina	ary use.					
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					
Emergency telephone numb	er:						
Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300					
	CHEMTREC Outside USA and Canada:	+1 (703)527-3887					
 Classification of the Substar Acute Toxicity: Oral, Categ		ition					
	nce or Mixture: gory 4	ition					
Acute Toxicity: Oral, Catego Toxic To Reproduction, Ca Label Elements:	nce or Mixture: gory 4	ition					
Acute Toxicity: Oral, Catego Toxic To Reproduction, Catego Label Elements: GHS Signal Word: GHS Hazard Phrases:	nce or Mixture: gory 4 ategory 2	ition					
Acute Toxicity: Oral, Catego Toxic To Reproduction, Catego Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed.	nce or Mixture: gory 4 ategory 2 Warning	Ition					
Acute Toxicity: Oral, Catego Toxic To Reproduction, Catego Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H361: Suspected of damaging	nce or Mixture: gory 4 ategory 2	Ition					
Acute Toxicity: Oral, Catego Toxic To Reproduction, Catego Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H361: Suspected of damagin GHS Precaution Phrases:	nce or Mixture: gory 4 ategory 2 Warning ng fertility or the unborn child.	Ition					
Acute Toxicity: Oral, Catego Toxic To Reproduction, Catego Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H361: Suspected of damaging GHS Precaution Phrases: P201: Obtain special instruct	nce or Mixture: gory 4 ategory 2 Warning ng fertility or the unborn child.						
Acute Toxicity: Oral, Catego Toxic To Reproduction, Catego Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H361: Suspected of damaging GHS Precaution Phrases: P201: Obtain special instruct	nce or Mixture: gory 4 ategory 2 Warning ng fertility or the unborn child. tions before use. safety precautions have been read and understoo						
Acute Toxicity: Oral, Catego Toxic To Reproduction, Catego Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H361: Suspected of damagin GHS Precaution Phrases: P201: Obtain special instruct P202: Do not handle until all P264: Wash {hands} thoroug	nce or Mixture: gory 4 ategory 2 Warning ng fertility or the unborn child. tions before use. safety precautions have been read and understoo	od.					
Acute Toxicity: Oral, Catego Toxic To Reproduction, Catego Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H361: Suspected of damagin GHS Precaution Phrases: P201: Obtain special instruct P202: Do not handle until all P264: Wash {hands} thoroug	nce or Mixture: gory 4 ategory 2 Warning ng fertility or the unborn child. tions before use. safety precautions have been read and understoo ghly after handling.	od.					
Acute Toxicity: Oral, Catego Toxic To Reproduction, Catego Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H361: Suspected of damagin GHS Precaution Phrases: P201: Obtain special instruct P202: Do not handle until all P264: Wash {hands} thoroug P280: Wear {protective glower GHS Response Phrases: P301+312: IF SWALLOWER	nce or Mixture: gory 4 ategory 2 Warning ng fertility or the unborn child. tions before use. safety precautions have been read and understoo ghly after handling. es/protective clothing/eye protection/face protectio D: Call a POISON CENTER or doctor/physician if y	od. n}.					
Acute Toxicity: Oral, Catego Toxic To Reproduction, Catego Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H361: Suspected of damagin GHS Precaution Phrases: P201: Obtain special instruc P202: Do not handle until all P264: Wash {hands} thoroug P280: Wear {protective glove GHS Response Phrases: P301+312: IF SWALLOWED P308+313: IF exposed or co	nce or Mixture: gory 4 ategory 2 Warning ng fertility or the unborn child. tions before use. safety precautions have been read and understoo ghly after handling. es/protective clothing/eye protection/face protectio	od. n}.					
Acute Toxicity: Oral, Catego Toxic To Reproduction, Catego Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H361: Suspected of damagin GHS Precaution Phrases: P201: Obtain special instruct P202: Do not handle until all P264: Wash {hands} thoroug P280: Wear {protective glower GHS Response Phrases: P301+312: IF SWALLOWER	Ance or Mixture: Jory 4 Antegory 2 Warning Ing fertility or the unborn child. tions before use. safety precautions have been read and understoor ghly after handling. es/protective clothing/eye protection/face protection D: Call a POISON CENTER or doctor/physician if y uncerned: Get medical attention/advice.	od. n}.					

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2.3		e Human Health and Symptoms:	Material may be irritating to the May be harmful by inhalation May cause eye, skin, or resp Suspected of damaging fertil	owed. e irritating to the mucous membranes and upper respiratory tract. I by inhalation or skin absorption. , skin, or respiratory system irritation. amaging fertility or the unborn child. pur knowledge, the toxicological properties have not been thoroughly investigated.					
		Sect	ion 3. Composition		-				
			oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification			
TM7165500 4-(9,10-dihydro-4H-		malic acid, compour 4-(9,10-dihydro-4H-t -4-ylidene)-1-methyl	penzo[4,5]cyclohepta[1,2-b]thien	100.0 %	225-970-4 NA	Acute Tox.(O) 4: H302 Toxic Repro. 2: H361			
	•		Section 4. Fi	rst Aid Meas	sures	•			
4.1	Descrip	tion of First Aid							
	Measure In Case	es: of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention. Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminate clothing. Get medical attention if symptoms occur. Wash clothing before reuse.						
	In Case	of Skin Contact:							
In Case of Eye Contact: In Case of Ingestion:			Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examine and tested by medical personnel.						
			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 Me	easures				
5.1	Suitable Media:	Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers.						
	Unsuita Media:	ble Extinguishing	A solid water stream may be	inefficient.					
5.2	Flamma Hazards	-	d No data available.						
			No data available.						
	Flash Pl Explosiv	t: ve Limits:	No data. LEL: No data.	UEL: No (etek				
	Autoign		No data.	OLL. NO	Jala.				
5.3	-		: As in any fire, wear self-conta equivalent), and full protectiv						



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	<u> </u>	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	5.2 Environmental Take steps to avoid release into the environment, if safe to do so.							
	Precautions:							
6.3	Methods and Material For	Methods and Material For Contain spill and collect, as appropriate.						
	Containment and Cleaning 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.						
	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	-						
	(Specify Type):							
	Work/Hygienic/Maintenan	Do not take internally.						
		Wash thoroughly after handling.						
		No data available.						
	Se	ction 9. Physical and Chemical Properties						
9.1	Information on Basic Physi	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.						
	vapor Density (vs. All = 1):							
		Multi-region forma						



SAFETY DATA SHEET Pizotifen (malate)

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	Specific	Gravity (Water =	1):	No data.						
	Solubility in Water:			No data.						
	Solubility Notes: Octanol/Water Partition			~0.11 mg/ml in a 1:8 solution of DMF:PBS (pH 7.2); ~0.5 mg/ml in EtOH; ~15 mg/ml in DMSO; ~20 mg/ml in DMF;						
				No data.						
	Coefficie	ent:								
	Autoigni	ition Pt:		No data.						
	-	osition Temperat	ure:	No data.						
	Viscosit	-		No data.						
9.2	Other Inf	-								
	Percent		No data.							
	Molecular Formula & Wei									
			-	ection 10. Stability and	Reactiv	vitv				
10.1	Reactivi	ty:		a available.		y				
10.2	Stability	:	Unstab	ole [] Stable [X]						
10.3	Stability	Note(s):	Stable	if stored in accordance with informa	tion listed o	on the product	insert.			
	Polymer	ization:	Will oc	cur [] Will not occur [X]						
10.4	Conditio	ons To Avoid:	No dat	a available.						
10.5	Incompa	atibility - Materials	strong	oxidizing agents						
	To Avoid	d:								
10.6	Hazardo	us	carbon	dioxide						
	Decomp	osition or	carbon	carbon monoixde						
	Byprodu	icts:	hydrog	ydrogen sulfide						
			nitroge	ogen oxides						
				ction 11. Toxicological						
11.1	Informat	ion on		The toxicological effects of this product have not been thoroughly studied.						
	Toxicolo	gical Effects:	Pizotife	Pizotifen (malate) - Toxicity Data: Oral TDLO (woman): 600 ug/kg;						
	Chronic	Toxicological	Pizotifen (malate) - Investigated as a drug.							
	Effects:		•	Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information.						
			Pizotife	en (malate) RTECS Number: TM716	55500					
CAS	#	Hazardous Com	ponent	s (Chemical Name)	NTP	IARC	ACGIH	OSHA		
518	5189-11-7 malic acid, compou 4-(9,10-dihydro-4H- ne)-1-methylpiperid		H-benzo	o[4,5]cyclohepta[1,2-b]thien-4-ylide	n.a.	n.a.	n.a.	n.a.		
		•	S	ection 12. Ecological Ir	nformat	ion	•	•		
12.1	Toxicity	:	Avoid r	elease into the environment.						
			Runoff	from fire control or dilution water ma	ay cause po	ollution.				
12.2	12.2 Persistence and			No data available.						
Degradability:										
12.3 Bioaccumulative			No data available.							
	Potentia	l:								
12.4 Mobility in Soil:			No data available.							
12.5				data available.						
	assessment:									
								lulti-rogion format		
1							N	Iulti-region format		



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12.6 Ot	12.6 Other adverse effects: No data available.								
Section 13. Disposal Considerations									
13.1 Wa	13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.								
Section 14. Transport Information									
14.1 LA	·								
DOT	DOT Proper Shipping Name: Not dangerous goods.								
DOT Hazard Class:									
	RID Shipping Name	European ADR/RID): Not dangerous goods.							
	umber:	Not dangerous goods.							
_	rd Class:								
14.3 AI	R TRANSPORT (ICA	O/IATA):							
ICAO	/IATA Shipping Nam	e: Not dangerous goods.							
Additiona	al Transport	Transport in accordance with lo	cal, state, and federa	al regulations.					
Informati	on:								
		Section 15. Regul	atory Informa	ition					
EPA SAR	A (Superfund Amer	dments and Reauthorization Act of	of 1986) Lists						
CAS #	Hazardous C	omponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)				
5189-11		•	No	No	No				
		o-4H-benzo[4,5]cyclohepta[1,2-b]thi 1-methylpiperidine (1:1)							
CAS #		omponents (Chemical Name)	Other US EPA or	State Lists					
5189-11					VA NPDES: No; TSCA: No; CA				
		o-4H-benzo[4,5]cyclohepta[1,2-b]thi 1-methylpiperidine (1:1)	PROP.65: No						
Regulator	ry Information	This SDS was prepared in acco	rdance with 29 CFR	1910.1200 and R	egulation (EC)				
Statemen	t:	No.1272/2008.							
		Section 16. Oth	er Informatio	n					
Revision	Date:	12/10/2016							
Additiona	I Information About	No data available.							
This Prod	uct:								
Company	Policy or Disclaime	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.							

Multi-region format