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Multi-region format

Revision: 11/15/2015

C1! 4 I	rding to Regulation (EC) No. 1907/2006 as amended by (E				
Section I. Ic	dentification of the Substance/Mixture and of the	e Company/Undertaking			
1.1 Product Code:	18467				
Product Name:	10,11-Dihydro-10-hydroxycarbamazepine	e E eerbeverride, Lieerbezenine, PIA 2 005, C			
Synonyms:	10,11-dihydro-10-hydroxy-5H-dibenz[b,f]azepin 47779; 10-Hydroxy-10,11-dihydrocarbamezepir	-			
1.2 Relevant identified uses of	Relevant identified uses of the substance or mixture and uses advised against:				
Relevant identified uses:	For research use only, not for human or vetering	ary use.			
1.3 Details of the Supplier of th	ne 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 num	ber:				
Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300			
	CHEMTREC Outside USA and Canada:	+1 (703)527-3887			
Skin Sensitization, Categ Aquatic Toxicity (Chronic 2.2 Label Elements:	-				
Aquatic Toxicity (Chronic	-				
Aquatic Toxicity (Chronic 2.2 Label Elements:	c), Category 2				
Aquatic Toxicity (Chronic	-				
Aquatic Toxicity (Chronic 2.2 Label Elements: GHS Signal Word:	c), Category 2				
Aquatic Toxicity (Chronic 2.2 Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed H317: May cause an allergi	c), Category 2 Danger d. jic skin reaction.				
Aquatic Toxicity (Chronic 2.2 Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed H317: May cause an allergi	c), Category 2 Danger d. hic skin reaction. r asthma symptoms or breathing difficulties if inhale	ed.			
Aquatic Toxicity (Chronic 2.2 Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed H317: May cause an allerg H334: May cause allergy of	c), Category 2 Category 2 Danger d. d. ic skin reaction. r asthma symptoms or breathing difficulties if inhale with long lasting effects.	ed.			
Aquatic Toxicity (Chronic 2.2 Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed H317: May cause an allerg H334: May cause allergy of H411: Toxic to aquatic life y GHS Precaution Phrases: P261: Avoid breathing {dus	c), Category 2 Category 2 Danger d. ic skin reaction. r asthma symptoms or breathing difficulties if inhale with long lasting effects. : st/fume/gas/mist/vapors/spray}.	ed.			
Aquatic Toxicity (Chronic 2.2 Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed H317: May cause an allerg H334: May cause an allerg H334: May cause allergy of H411: Toxic to aquatic life of GHS Precaution Phrases: P261: Avoid breathing {dus P264: Wash {hands} thorow	c), Category 2 Category 2 Danger d. d. ic skin reaction. r asthma symptoms or breathing difficulties if inhale with long lasting effects. : st/fume/gas/mist/vapors/spray}. ughly after handling.				
Aquatic Toxicity (Chronic 2.2 Label Elements:	c), Category 2 Category 2 Danger Danger d. ic skin reaction. r asthma symptoms or breathing difficulties if inhale with long lasting effects. : st/fume/gas/mist/vapors/spray}. ughly after handling. clothing should not be allowed out of the workplace.				
Aquatic Toxicity (Chronic Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed H317: May cause an allerg H334: May cause allergy of H411: Toxic to aquatic life of GHS Precaution Phrases: P261: Avoid breathing {dus P264: Wash {hands} thorou P272: Contaminated work of P273: Avoid release to the	c), Category 2 Category 2 Danger Danger d. d. d. ic skin reaction. r asthma symptoms or breathing difficulties if inhale with long lasting effects. : st/fume/gas/mist/vapors/spray}. ughly after handling. clothing should not be allowed out of the workplace environment.				
Aquatic Toxicity (Chronic 2.2 Label Elements:	c), Category 2 Category 2 Danger Danger d. ic skin reaction. r asthma symptoms or breathing difficulties if inhale with long lasting effects. : st/fume/gas/mist/vapors/spray}. ughly after handling. clothing should not be allowed out of the workplace.				
Aquatic Toxicity (Chronic 2.2 Label Elements:	c), Category 2				
Aquatic Toxicity (Chronic 2.2 Label Elements:	c), Category 2	m}.			
Aquatic Toxicity (Chronic Label Elements:	c), Category 2	m}.			
Aquatic Toxicity (Chronic Label Elements:	c), Category 2 Category 2 Danger	m}. you feel unwell.			



No data.

Autoignition Pt:

# SAFETY DATA SHEET 10,11-Dihydro-10-hydroxycarbamazepine

	P333 P342 P362	+311: If experiencing	n or rash occurs, seek medical g respiratory symptoms call a l aminated clothing and wash it l	POISON CENTER (	or doctor/physicia	n.		
GHS Storage and Dispo			sal Phrases:					
			for Storage and Section 13 for	Disposal informatio	on.			
2.3 Adverse Human Health			Harmful if swallowed.					
2.5				he mucous membra	ines and upper re-	spiratory tract		
Effects and Symptoms:		and Symptoms.	Material may be irritating to the mucous membranes and upper respiratory tract. May be harmful by skin absorption.					
			May cause allergy or asthma	-	hing difficulties if i	nhaled		
			May cause an allergic skin re					
			May cause eye, skin, or resp		tion.			
			Toxic to aquatic life with long					
				-	roperties have no	t been thoroughly investigated.		
		0	-	<b>.</b>	•			
		Seci	ion 3. Composition	/Information	on ingredie	nts		
CAS RTE		Hazardous Comp REACH Registrat	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification		
2933 NA	29331-92-8 5H-Dibenz[b,f]azepi			100.0 %	608-350-1 NA	Acute Tox.(O) 4: H302 Skin Sens. 1: H317 Resp. Sens. 1: H334 Aquatic (C) 2: H411		
		- <u>I</u>		!	_ <b>!</b>			
			Section 4. Fi	rst Aid Meas	ures			
4.1	Descri	ption of First Aid						
	Measu	res:						
	In Case	e of Inhalation:	Remove to fresh air. If not bre Get immediate medical attent	0.0	al respiration or given or giv	ve oxygen by trained personnel.		
	In Case	e of Skin Contact:	Immediately wash skin with s clothing. Get medical attentio			5 minutes. Remove contaminated before reuse.		
	In Case	e of Eye Contact:	Hold eyelids apart and flush e and tested by medical person		vater for at least 1	5 minutes. Have eyes examined		
	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 Me	asures			
5.1	Suitable Extinguishing Use alcohol-resistant foam, c		carbon dioxide, wate	er, or dry chemical	l spray.			
	Media: Use water spray to cool fire-ex			exposed containers.				
	Unsuit Media:		A solid water stream may be	inefficient.				
5.2	Flamm Hazard	able Properties an Is:	<b>d</b> No data available.					
			No data available.					
	Flash I	Pt:	No data.					
		sive Limits:	LEL: No data.	UEL: No d	ata			
	Explos	nto Linito.		OLL. NOU				



5.3	Fire Fighting Instructions: 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. Ac	cidental Release M	easures	
6.1	<ul> <li>6.1 Protective Precautions, Avoid raising and breathing dust, and provide add</li> <li>Protective Equipment and As conditions warrant, wear a NIOSH approved s</li> <li>Emergency Procedures: and appropriate personal protection (rubber boot)</li> </ul>			elf-contained breathing appar		
6.2	Environmental       Take steps to avoid release into the environment, if safe to do so.         Precautions:       Precautions = 0					
6.3			r Contain spill and coll gTransfer to a chemic	ect, as appropriate. al waste container for disposa	al in accordance with local reg	gulations.
			Section 7.	Handling and Sto	rage	
7.1 7.2	in Hand	ling: ions To Be Taken	Avoid prolonged or re Keep container tightly			
			tion 8. Exposu	re Controls/Person	al Protection	
8.1	-	e Parameters:			1	1_
CAS		Partial Chemical		Britain EH40	France VL	Europe
2933	31-92-8	5H-Dibenz[b,f]aze 10,11-dihydro-10-	epine-5-carboxamide, hydroxy-	No data.	No data.	No data.
CAS # Partial Chemical Name						
CAS	#		Name	OSHA TWA	ACGIH TWA	Other Limits
	# 31-92-8		epine-5-carboxamide,	No data.	No data.	No data.
	31-92-8	5H-Dibenz[b,f]aze	epine-5-carboxamide,			
2933	31-92-8 Exposur Enginee	5H-Dibenz[b,f]aze 10,11-dihydro-10-	epine-5-carboxamide, hydroxy- Use process enclosu		No data.	No data.
2933 <b>8.2</b>	31-92-8 Exposur Enginee (Ventilat Persona	5H-Dibenz[b,f]aze 10,11-dihydro-10- e Controls: ering Controls tion etc.): al protection equi	epine-5-carboxamide, hydroxy- Use process enclosur levels below recommo	No data. res, local exhaust ventilation,	No data.	No data.
2933 8.2 8.2.1	B1-92-8 Exposur Enginee (Ventilat Persona Eye Pro	5H-Dibenz[b,f]aze 10,11-dihydro-10- e Controls: ering Controls tion etc.): al protection equi tection:	epine-5-carboxamide, hydroxy- Use process enclosur levels below recommo <b>pment:</b> Safety glasses	No data. res, local exhaust ventilation, ended exposure limits.	No data.	No data.
2933 8.2 8.2.1	B1-92-8 Exposur Enginee (Ventilat Persona Eye Pro	5H-Dibenz[b,f]aze 10,11-dihydro-10- e Controls: ering Controls tion etc.): al protection equi	epine-5-carboxamide, hydroxy- Use process enclosur levels below recommo <b>pment:</b>	No data. res, local exhaust ventilation, ended exposure limits.	No data.	No data.
2933 8.2 8.2.1	B1-92-8 Exposur Enginee (Ventilat Persona Eye Pro Protecti	5H-Dibenz[b,f]aze 10,11-dihydro-10- e Controls: ering Controls tion etc.): al protection equi tection:	epine-5-carboxamide, hydroxy- Use process enclosur levels below recommon pment: Safety glasses Compatible chemical-	No data. res, local exhaust ventilation, ended exposure limits.	No data.	No data.
2933 8.2 8.2.1	B1-92-8 Exposur Enginee (Ventilat Persona Eye Pro Protecti Other Pt	5H-Dibenz[b,f]aze 10,11-dihydro-10- e Controls: ering Controls tion etc.): al protection equi tection: ve Gloves: rotective Clothing tory Equipment	epine-5-carboxamide, hydroxy- Use process enclosur levels below recommo pment: Safety glasses Compatible chemical- g:Lab coat	No data. res, local exhaust ventilation, ended exposure limits.	No data.	No data.
2933 8.2 8.2.1	B1-92-8 Exposur Enginee (Ventilat Persona Eye Pro Protecti Other Pi Respira (Specify	5H-Dibenz[b,f]aze 10,11-dihydro-10- e Controls: ering Controls tion etc.): al protection equi tection: ve Gloves: rotective Clothing tory Equipment 7 Type): /gienic/Maintenar	epine-5-carboxamide, hydroxy- Use process enclosur levels below recommon pment: Safety glasses Compatible chemical- g:Lab coat NIOSH approved response	No data. res, local exhaust ventilation, ended exposure limits. -resistant gloves pirator, as conditions warrant. ilizing this material should be	No data.	No data. to control airborne



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	S	ection 9. Physical and Chemical Properties		
9.1				
	Physical States:	[]Gas []Liquid [X]Solid		
	Appearance and Odor:	A crystalline solid		
	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 o	r mm No data.		
	Hg):			
	Vapor Density (vs. Air = 1	): No data.		
	Specific Gravity (Water =	1): No data.		
	Solubility in Water:	No data.		
	Solubility Notes:	~0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2); ~3 mg/ml in EtOH; ~25 mg/ml in DMSO & DMF;		
	Autoignition Pt:	No data.		
9.2	Other Information			
	Percent Volatile:	No data.		
	Molecular Formula & Wei	ght: C15H14N2O2 254.3		
		Section 10. Stability and Reactivity		
10.1	Reactivity:	No data available.		
10.2	Stability:	Unstable [ ] Stable [ X ]		
10.3	Stability Note(s):	Stable if stored in accordance with information listed on the product insert.		
	Polymerization:	Will occur [ ] Will not occur [ X ]		
10.4	Conditions To Avoid:	No data available.		
10.5	Incompatibility - Materials To Avoid:	s strong oxidizing agents		
10.6	Hazardous	carbon dioxide		
	Decomposition or	carbon monoxide		
	Byproducts:	nitrogen oxides		
		Multi-region forma		



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			Section 11. Toxico	ological Infor	mation			
1.1       Information on       The toxicological effects of this product have not been thoroughly studied.         Toxicological Effects:       Toxicological Effects:								
CAS # Hazardous Compor			ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
29331-92-8 5H-Dibenz[b,f]azepine-5-carboxamide, 10,11-dihydro-10-hydroxy-		n.a.	n.a.	n.a.	n.a.			
		-	Section 12. Ecol	ogical Inform	nation	•	•	
12.1	12.1 Toxicity:		Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.					
12.2	Persiste Degrada	ence and ability:	No data available.					
12.3	Bioaccu Potentia	ımulative al:	No data available.					
12.4	Mobility	in Soil:	No data available.					
12.5	Results assessr	of PBT and vPvB nent:	No data available.					
12.6	Other a	dverse effects:	No data available.					
			Section 13. Dispo	sal Conside	rations			
13.1	Waste D	Disposal Method:	Dispose in accordance with loo	cal, state, and fede	ral regulations.			
			Section 14. Trar	nsport Inform	nation			
14.1	LAND 1	RANSPORT (US I	ЮТ):					
D	OT Prope OT Hazar N/NA Nui		Not dangerous goods.					
14.1	LAND 1	RANSPORT (Euro						
U	DR/RID S N Numbe azard Cla		Not dangerous goods.					
14.3	AIR TR	ANSPORT (ICAO/I	ATA):					
IC	CAO/IATA	Shipping Name:	Not dangerous goods.					
	tional Tra	nsport	Transport in accordance with I	local, state, and fec	leral regulations.			
			Section 15. Regu	ulatory Inforn	nation			
EPA	SARA (Sı	uperfund Amendm	ents and Reauthorization Act	t of 1986) Lists				
CAS	#	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 31	3 (TRI)	
2933	31-92-8	5H-Dibenz[b,f]aze 10,11-dihydro-10	epine-5-carboxamide, hydroxy-	No	No	No		
CAS	#	Hazardous Com	ponents (Chemical Name)	Other US EPA	or State Lists			
29331-92-8 5H-Dibenz[b,f]azepine-5-carboxamide, 10,11-dihydro-10-hydroxy-		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No						



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Regulatory Information Statement:	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.
	Section 16. Other Information
Revision Date:	11/15/2015
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.