

SAFETY DATA SHEET Vortioxetine

Revision: 01/27/2020

Page: 1 of 5

	Section 1. Ic	dentification of the Substance/Mixture and of the	e Company/Undertaking						
.1	Product Code:	30183							
	Product Name:	Vortioxetine							
	Synonyms:	1-[2-[(2,4-dimethylphenyl)thio]phenyl]-piperazin	ie;						
2	Relevant identified uses of	the substance or mixture and uses advised aga	inst:						
	Relevant identified uses:	For research use only, not for human or veterin	ary use.						
.3	Details of the Supplier of the Safety Data Sheet:								
	Company Name: Cayman Chemical Company								
		1180 E. Ellsworth Rd.							
	Web site address:	Ann Arbor, MI 48108							
	Information:	www.caymanchem.com Cayman Chemical Company	+1 (734)971-3335						
			+1 (734)971-3335						
4	Emergency telephone num		.4. (000) 404 0000						
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887						
		Section 2. Hazards Identifica	ation						
1	GIASSINGATION OF THE SUDSIA	ance or Muxture:							
	Toxic To Reproduction, C Specific Target Organ To Specific Target Organ To	Category 2 xicity (single exposure), Category 2							
	Toxic To Reproduction, C Specific Target Organ To Specific Target Organ To	Category 2 xicity (single exposure), Category 2 xicity (repeated exposure), Category 2							
	Toxic To Reproduction, C Specific Target Organ To Specific Target Organ To Label Elements:	Category 2 xicity (single exposure), Category 2							
	Toxic To Reproduction, C Specific Target Organ To Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases:	Category 2 xicity (single exposure), Category 2 xicity (repeated exposure), Category 2							
	Toxic To Reproduction, C Specific Target Organ To Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H361: Suspected of damage	Category 2 xicity (single exposure), Category 2 xicity (repeated exposure), Category 2 Warning							
	Toxic To Reproduction, C Specific Target Organ To Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H361: Suspected of damage H371: May cause damage	Category 2 xicity (single exposure), Category 2 xicity (repeated exposure), Category 2 Warning ging fertility or the unborn child.	ed exposure.						
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	Toxic To Reproduction, C Specific Target Organ To Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H361: Suspected of damage H371: May cause damage H373: May cause damage	Category 2 xicity (single exposure), Category 2 xicity (repeated exposure), Category 2 Warning ging fertility or the unborn child. to organs {CNS, kidney, liver}. to {CNS, kidney, liver} through prolonged or repeate ses:	ed exposure.						
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	Toxic To Reproduction, C Specific Target Organ To Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H361: Suspected of damage H371: May cause damage H373: May cause damage GHS Precautionary Phrase P201: Obtain special instru P202: Do not handle until a P260: Do not breathe {dust P264: Wash {hands} thorou P280: Wear {protective glo GHS Response Phrases: P308+311: If exposed of co P313: Get medical advice/a	Category 2 xicity (single exposure), Category 2 xicity (repeated exposure), Category 2 Warning ging fertility or the unborn child. to organs {CNS, kidney, liver}. to {CNS, kidney, liver} through prolonged or repeate ses: all safety precautions have been read and understood t/fume/gas/mist/vapors/spray}. ughly after handling. ves/protective clothing/eye protection/face protection boncerned: Call a {POISON CENTER/Doctor/}.	od.						
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	1		SAFE	TY DATA SH	IEET	Page: 2 of 5				
			V	Davision: 01/27/2020						
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	UFI:									
2.3	Advers	e 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.							
			May cause damage to {CNS,	, kidney, liver} throu	gh prolonged or re	peated exposure.				
			May cause eye, skin, or resp	iratory system irritat	tion.					
			Suspected of damaging fertil	-						
			To the best of our knowledge	, the toxicological p	properties have not	t been thoroughly investigated.				
		Sec	tion 3. Composition	/Information	on Ingredie	nts				
CAS	#/	Hazardous Com	ponents (Chemical Name)/	Concentration	EC No./	GHS Classification				
RTE	CS #	REACH Registra			EC Index No.					
5082	33-74-7	Vortioxetine		100.0 %	823-919-6	Toxic Repro. 2: H361				
NA					NA	STOT (SE) 2: H371				
						STOT (RE) 2: H373				
			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 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							
			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	Suitabl	le Extinguishing	Use alcohol-resistant foam, c	carbon dioxide, wate	er, or dry chemical	spray.				
	Media:		Use water spray to cool fire-exposed containers.							
	Unsuita	able Extinguishinç	A solid water stream may be inefficient.							
	Media:									
5.2	Flamm	able Properties an	ndNo data available.							
	Hazard	is:								
			No data available.							
	Flash F	Pt:	No data.							
	Explos	ive Limits:	LEL: No data.	UEL: No d	ata.					
	Autoig	nition Pt:	No data.							
5.3	Fire Fig	ghting Instructions	s:As in any fire, wear self-conta	ained breathing app	aratus pressure-d	emand (NIOSH approved or				
	equivalent), and full protective gear to prevent contact with skin and eyes.									

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SAFETY DATA SHEET Vortioxetine

		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									
	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	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	Jse process enclosures, local exhaust ventilation, or other engineering controls to control airborne							
	(Ventilation etc.):	evels below recommended exposure limits.							
8.2.2	Personal protection equip	nent:							
	Eye Protection:	Safety glasses							
	Protective Gloves:	Compatible chemical-resistant gloves							
	Other Protective Clothing:	_ab coat							
	Respiratory Equipment	NIOSH approved respirator, as conditions warrant.							
	(Specify Type):								
	Work/Hygienic/Maintenan								
		Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.							
		Nash 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. mm No data.							
	Vapor Pressure (vs. Air or Hg):								
	Vapor Density (vs. Air = 1):	No data.							
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SAFETY DATA SHEET Vortioxetine



Page: 4 of 5

	Specific	Gravity (Water =	1):	No data.							
Solubility in Water:		No data.									
	Solubility	/ Notes:		~0.25 mg DMSO &			n of DM	SO:PBS (pH 7.2); ~5 m	g/ml in EtOH; ~	30 mg/ml in
	Octanol/	Nater Partition		No data.							
	Coefficie	nt:									
	Autoigni	tion Pt:		No data.							
	Decompo	osition Temperat	ure:	No data.							
	Viscosity	' :		No data.							
9.2	Other Info	ormation									
	Percent V	/olatile:		No data.							
	Molecula	r Formula & Weig	ght:	C18H22N	12S	298.4					
			S	ection	10.	Stability	and	Reacti	vity		
10.1	Reactivit	y:	No dat	ta available							
10.2	Stability:			ole[]		e[X]					
10.3	Stability							tion listed	on the product	insert.	
	Polymeri			cur[]		not occur [X]				
10.4		ns To Avoid:		a available	Э.						
10.5	-	tibility - Materials									
	To Avoid		-	oxidizing a	agents	6					
10.6	Hazardou	-	carbon dioxide								
	-	osition or	carbon monoxide								
	Byprodu	cts:	nitrogen oxides sufur oxides								
											
			Se	ection 1	1. I	oxicolog	lical I	Informa	ation		
11.1	Informati	on on	The to	xicological	effect	ts of this prod	luct hav	e not beer	n thoroughly s	tudied.	
	Toxicolo	gical Effects:									
CAS #	CAS # Hazardous Com			s (Chemic	al Na	me)		NTP	IARC	ACGIH	OSHA
5082	33-74-7	Vortioxetine						n.a.	n.a.	n.a.	n.a.
	•		S	Section	12.	Ecologic	cal In	format	ion	·	
12.1	Toxicity:					environment.					
	. oxiony i		Runoff from fire control or dilution water may cause pollution.								
12.2	Persister	nce and		a available							
	Degradal	oility:									
12.3	Bioaccur	nulative	No dat	ta available	Э.						
	Potential	:									
12.4	Mobility	n Soil:	No dat	a available	Э.						
12.5	-		No dat	ta available	e.						
	assessm	ent:									
12.6	Other ad	verse effects:	No da	ta available	e.						

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SAFETY DATA SHEET Vortioxetine

Revision: 01/27/2020

Page: 5 of 5

Section 13. Disposal Considerations									
13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.									
Section 14. Transport Information									
14.1 LAND TRANSPORT (US DOT):									
-	DOT Proper Shipping Name: Not dangerous goods.								
	DOT Hazard Class:								
	UN/NA Number: 14.1 LAND TRANSPORT (European ADR/RID):								
	nipping Name:	Not dangerous goods.							
UN Number									
Hazard Clas	ss: NSPORT (ICAO/I	ATA).							
	Shipping Name:	Not dangerous goods.							
UN Number		0 0	Packing Gr	oup:					
Hazard Clas									
Additional Tran	nsport	Transport in accordance with lo	cal, state, and fede	ral regulations.					
		Section 15. Regul	atory Inform	ation					
EPA SARA (Su	nerfund Amendr	nents and Reauthorization Act	•	ation					
CAS #	- 	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)				
508233-74-7	Vortioxetine	· · · · /	No	No	No				
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA o	r State Lists					
508233-74-7	Vortioxetine		CAA HAP,ODC: PROP.65: No	No; CWA NPDES:	No; TSCA: No; CA				
Regulatory Info Statement:	Regulatory Information This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) Statement: No.1272/2008.								
		Section 16. Oth	ner Informatio	on					
Revision Date:		01/27/2020							
Additional Info	mation 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.									
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