

Multi-region format

	accord	ling to Regulation (EC) No. 1907/2006 as amended by	(EC) No. 1272/2008						
	Section 1. Ide	entification of the Substance/Mixture and of the	he Company/Undertaking						
1.1	Product Code: 21533								
	Product Name:	Zosuquidar (hydrochloride)							
	Synonyms:	(.alpha.R)-4-[(1a.alpha.,6.alpha.,10b.alpha.)-1	,1-difluoro-1,1a,6,10b-tetrahydrodibenzo[a,e]cyd						
		propa[c]cyclohepten-6-yl]alpha[(5-quinolinyl	loxy)methyl]-1-piperazineethanol, trihydrochlorid						
		LY335979; RS 33295-198;							
.2	Relevant identified uses of t	he substance or mixture and uses advised ag	ainst:						
	Relevant identified uses:	For research use only, not for human or vetering	nary 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 numb	er:							
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300						
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887						
		Section 2. Hazards Identific	ation						
2.1	Classification of the Substar	nce or Mixture:							
	Skin Corrosion/Irritation, Category 2 Serious Eve Damage/Eve Irritation, Category 2								
	Serious Eye Damage/Eye Irritation, Category 2 Specific Target Organ Toxicity (single exposure), Category 3								
		icity (single exposure), category 5							
2.2	Label Elements:								
	GHS Signal Word:	Warning							
	GHS Hazard Phrases:	5							
	H315: Causes skin irritation.								
	H319: Causes skin initiation. H319: Causes serious eye irritation.								
	H335: May cause respiratory irritation.								
	GHS Precaution Phrases:								
	P261: Avoid breathing {dust/fume/gas/mist/vapors/spray}.								
	P261: Avoid breathing (dustrume/gas/mis/vapors/spray). P264: Wash {hands} thoroughly after handling.								
	P280: Wear {protective gloves/protective clothing/eye protection/face protection}.								
	GHS Response Phrases: P302+352: IE ON SKIN: Wash with plenty of soap and water								
	P302+352: IF ON SKIN: Wash with plenty of soap and water.								
	P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.								
	P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing								
	to do. Continue rinsing.	ER or doctor/physician if you feel upwell							
		P312: Call a POISON CENTER or doctor/physician if you feel unwell. P332+313: If skin irritation occurs, get medical advice/attention.							
		-							
	P337+313: If eye irritation persists, get medical advice/attention. P362+364: Take off contaminated clothing and wash it before reuse.								
		-							
	GHS Storage and Disposa								



2.3	Effects and Symptoms: Causes skin irritation. Material may be irritating to the mucous membranes and upper respiratory tract. May be harmful by inhalation, ingestion, or skin absorption. May cause respiratory system irritation. To the best of our knowledge, the toxicological properties have not been thoroughly investigate Section 3. Composition/Information on Ingredients								
	CAS # / Hazardous Comp RTECS # REACH Registrat		oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification			
16746 NA	\$5-36-3	Zosuquidar (hydroch	nloride)	100.0 %	NA NA	Skin Corr. 2: H315 Eye Damage 2: H319 STOT (SE) 3: H335			
			Section 4. Fi	rst Aid Measu	ires				
4.1	Measu	otion of First Aid res: e of Inhalation:	Remove to fresh air. If not bre		I respiration or giv	ve oxygen by trained personnel.			
	In Case	e of Skin Contact:							
	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 p unconscious person. Get med medical personnel.	-	-	ive anything by mouth to an ng unless directed to do so by			
			Section 5. Fire	Fighting Mea	asures				
5.1	Suitabl Media:	e Extinguishing	Use alcohol-resistant foam, o Use water spray to cool fire-e		r, or dry chemical	spray.			
	Unsuita Media:		A solid water stream may be	inefficient.					
5.2	Flamm Hazard	-	d No data available.						
			No data available.						
	Flash F		No data. LEL: No data.	UEL: No da	uto.				
	-	ive Limits: nition Pt:	No data.	UEL. NO UZ	lld.				
5.3	-		Standard Street, wear self-conta equivalent), and full protectiv	• • • •	•				



		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 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	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	Do not take internally.
	ce Practices:	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	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.
		Multi-region format



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	Specific	Gravity (Water = '	1):	No data.							
Solubility in Water:			No data.								
Solubility Notes: Octanol/Water Partition				~0.33 mg/ml in a 1:2 solution of EtOH:PBS (pH 7.2); ~10 mg/ml in EtOH, DMSO, & DMF;							
				No data.							
	Coefficie	nt:									
	Autoigni	tion Pt:		No data.							
	Decomposition Temperature:			No data.							
	Viscosity:			No data.							
9.2	Other Info										
	Percent			No data.							
		r Formula & Weig	nht.	C32H31F2N3O2	• 3HCI 637	7.0					
	molocule						-				
				ection 10. S	Stability an	d Reacti	vity				
10.1	Reactivit	-		a available.							
10.2	Stability		Unstab								
10.3	Stability			if stored in accord		nation listed	on the product	insert.			
	Polymer	zation:	Will oc	cur[] Will no	ot occur [X]						
10.4	Conditio	ns To Avoid:	No data	a available.							
10.5	Incompa	tibility - Materials	strong	acids							
	To Avoid	:	strong	bases							
		strong oxidizing agents									
		strong	ong reducing agents								
10.6 Hazardous No data available.											
	Decomposition or										
	Byprodu	cts:									
			Se	ction 11. To	oxicologica	l Inform	ation				
11.1	Informat	ion on		kicological effects	•			udied			
		gical Effects:					in thoroughly st	duicu.			
CAS	#	Hazardous Com	ponents	s (Chemical Nam	ne)	NTP	IARC	ACGIH	OSHA		
1674	65-36-3	Zosuquidar (hydro	ochlorid	e)		n.a.	n.a.	n.a.	n.a.		
			S	ection 12. E	Ecological	Informat	tion	·			
12.1	Toxicity:		Avoid r	elease into the er	nvironment.						
	-		Runoff	from fire control o	or dilution water	may cause p	ollution.				
12.2	Persiste	nce and	No data	a available.							
	Degrada										
12.3	Bioaccu	-	No dat	a available.							
12.5	Potentia										
			No dat								
12.4	Mobility			a available.							
12.5		of PBT and vPvB	No dat	a available.							
	assessm	ent:									
12.6	Other ad	verse effects:	No dat	a available.							



Revision: 04/03/2017

14.1 LAND TR DOT Proper DOT Hazard UN/NA Num 14.1 LAND TR ADR/RID Sh UN Number: Hazard Clas 14.3 AIR TRA ICAO/IATA S Additional Trans	ber: RANSPORT (Eur ipping Name: : : S: NSPORT (ICAO/ Shipping Name:	Section 14. Tran DOT): Mot dangerous goods. opean ADR/RID): Not dangerous goods.		-			
DOT Proper DOT Hazard UN/NA Num 14.1 LAND TR ADR/RID Sh UN Number: Hazard Clas 14.3 AIR TRA ICAO/IATA S Additional Trans	Shipping Name Class: ber: RANSPORT (Eur ipping Name: : SS: NSPORT (ICAO/ Shipping Name:	DOT): : Not dangerous goods. opean ADR/RID): Not dangerous goods. IATA): Not dangerous goods.	isport Informa	tion			
DOT Proper DOT Hazard UN/NA Num 14.1 LAND TR ADR/RID Sh UN Number: Hazard Clas 14.3 AIR TRA ICAO/IATA S Additional Trans	Shipping Name Class: ber: RANSPORT (Eur ipping Name: : SS: NSPORT (ICAO/ Shipping Name:	Not dangerous goods.					
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14.1 LAND TR ADR/RID Sh UN Number: Hazard Clas 14.3 AIR TRA ICAO/IATA S Additional Trans	RANSPORT (Eur ipping Name: : : : Sis: NSPORT (ICAO/ Shipping Name:	Not dangerous goods. IATA): Not dangerous goods.					
ADR/RID Sh UN Number: Hazard Clas 14.3 AIR TRA ICAO/IATA S Additional Trans	ipping Name: s: NSPORT (ICAO/ Shipping Name:	Not dangerous goods. IATA): Not dangerous goods.					
14.3 AIR TRA ICAO/IATA S Additional Trans Information:	NSPORT (ICAO/ Shipping Name:	Not dangerous goods.					
ICAO/IATA S Additional Trans Information:	Shipping Name:	Not dangerous goods.					
Information:	sport						
			ocal, state, and feder	al regulations.			
		Section 15. Regu	latory Informa	ation			
EPA SARA (Sup	perfund Amendn	nents and Reauthorization Act	of 1986) Lists				
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
167465-36-3	Zosuquidar (hydr	rochloride)	No	No No			
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or State Lists				
167465-36-3	Zosuquidar (hydr	ochloride)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulatory Infor Statement:	rmation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.					
		Section 16. Oth	her Informatio	n			
Revision Date:		04/03/2017					
Additional Inforr This Product:	mation About	No data available.					
Company Policy or Disclaimer:		DISCLAIMER: This information currently available to us. Howev express or implied, with respect use. Users should make their of their particular purposes.	ver, we make no war t to such information,	ranty of merchant and we assume i	ability or any other warrar no liability resulting from i		

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