

### SAFETY DATA SHEET Estazolam

		cording to Regulation (EC) No. 1907/2006 as amended by (E					
	Section 1.	Identification of the Substance/Mixture and of the	e Company/Undertaking				
.1	Product Code:	15889					
	Product Name:	Estazolam					
	Synonyms:	8-Chloro-6-phenyl-4H-[1,2,4]triazolo[4,3-a][1,4]b	penzodiazepine;				
2	Relevant identified uses	of the substance or mixture and uses advised agai	nst:				
	Relevant identified uses	s: For research use only, not for human or veterina	ary 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	.4 (724)074 2225				
	Information:	Cayman Chemical Company	+1 (734)971-3335				
4	Emergency telephone nu						
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300				
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
		Section 2. Hazards Identifica	tion				
1	Classification of the Subs	stance or Mixture:					
2		ye Irritation, Category 2 Foxicity (single exposure), Category 3					
2	Specific Target Organ						
2	Specific Target Organ T Label Elements:	Foxicity (single exposure), Category 3					
2	Specific Target Organ T Label Elements: GHS Signal Word:						
2	Specific Target Organ T Label Elements: GHS Signal Word: GHS Hazard Phrases:	Foxicity (single exposure), Category 3 Warning					
2	Specific Target Organ T Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat	Toxicity (single exposure), Category 3 Warning ion.					
2	Specific Target Organ T Label Elements: GHS Signal Word: GHS Hazard Phrases:	Toxicity (single exposure), Category 3 Warning ion. /e irritation.					
2	Specific Target Organ T Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat H319: Causes serious ey	Toxicity (single exposure), Category 3 Warning ion. /e irritation. atory irritation.					
2	Specific Target Organ T Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat H319: Causes serious ey H335: May cause respira GHS Precaution Phrase	Toxicity (single exposure), Category 3 Warning ion. /e irritation. atory irritation.					
2	Specific Target Organ T Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat H319: Causes serious ey H335: May cause respira GHS Precaution Phrase	Toxicity (single exposure), Category 3 Warning ion. /e irritation. atory irritation. es: lust/fume/gas/mist/vapors/spray}.					
2	Specific Target Organ T Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat H319: Causes serious ey H335: May cause respira GHS Precaution Phrase P261: Avoid breathing {d P264: Wash {hands} thom	Toxicity (single exposure), Category 3 Warning ion. /e irritation. atory irritation. es: lust/fume/gas/mist/vapors/spray}.	n}.				
2	Specific Target Organ T Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat H319: Causes serious ey H335: May cause respira GHS Precaution Phrase P261: Avoid breathing {d P264: Wash {hands} thom	Toxicity (single exposure), Category 3 Warning ion. /e irritation. atory irritation. es: llust/fume/gas/mist/vapors/spray}. roughly after handling. lloves/protective clothing/eye protection/face protectior	n}.				
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2	Specific Target Organ T Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat H319: Causes serious ey H335: May cause respira GHS Precaution Phrase P261: Avoid breathing {d P264: Wash {hands} thou P280: Wear {protective g GHS Response Phrase P302+352: IF ON SKIN: P304+340: IF INHALED:	Toxicity (single exposure), Category 3 Warning ion. /e irritation. atory irritation. es: lust/fume/gas/mist/vapors/spray}. roughly after handling. loves/protective clothing/eye protection/face protection s: Wash with plenty of soap and water.	on comfortable for breathing.				
2	Specific Target Organ T Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat H319: Causes serious ey H335: May cause respira GHS Precaution Phrase P261: Avoid breathing {d P264: Wash {hands} tho P280: Wear {protective g GHS Response Phrase P302+352: IF ON SKIN: P304+340: IF INHALED: P305+351+338: IF IN EY to do. Continue rinsing.	Toxicity (single exposure), Category 3 Warning ion. /e irritation. atory irritation. es: lust/fume/gas/mist/vapors/spray}. roughly after handling. loves/protective clothing/eye protection/face protection s: Wash with plenty of soap and water. Remove victim to fresh air and keep at rest in a positio 'ES: Rinse cautiously with water for several minutes. F	on comfortable for breathing.				
2	Specific Target Organ T Label Elements: GHS Signal Word: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat H319: Causes serious ey H335: May cause respira GHS Precaution Phrase P261: Avoid breathing {d P264: Wash {hands} thou P280: Wear {protective g GHS Response Phrase P302+352: IF ON SKIN: P304+340: IF INHALED: P305+351+338: IF IN EX to do. Continue rinsing. P312: Call a POISON CE	Toxicity (single exposure), Category 3 Warning ion. /e irritation. atory irritation. es: lust/fume/gas/mist/vapors/spray}. roughly after handling. ploves/protective clothing/eye protection/face protection s: Wash with plenty of soap and water. Remove victim to fresh air and keep at rest in a position /ES: Rinse cautiously with water for several minutes. F	on comfortable for breathing.				
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2.3	Adverse	e Human Health	Causes serious eye irritation.			
	Effects	and Symptoms:	Causes skin irritation.			
			Material may be irritating to the	he mucous membran	es and upper res	spiratory tract.
			May be harmful by inhalation	i, ingestion, or skin at	osorption.	
			May cause respiratory syster	n irritation.		
			To the best of our knowledge	, the toxicological pro	operties have not	been thoroughly investigated.
		Sect	tion 3. Composition	/Information c	on Ingredie	nts
CAS : RTEC		Hazardous Comp REACH Registra	ponents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification
	5-16-4	Estazolam		100.0 %	249-982-4	Skin Corr. 2: H315
XZ547	'3500				NA	Eye Damage 2A: H319
						STOT (SE) 3: H335 H336
			Section 4. Fi	rst Aid Measu	ires	
4.1	Descrip	otion of First Aid				
	Measur	es:				
	In Case	of Inhalation:	Remove to fresh air. If not bre	eathing, give artificial	respiration or giv	ve oxygen by trained personnel.
			Get immediate medical attent			
	In Case	of Skin Contact:	Immediately wash skin with s	oap and plenty of wa	ter for at least 15	minutes. Remove contaminated
			clothing. Get medical attentio	n if symptoms occur.	Wash clothing b	efore reuse.
	In Case	of Eye Contact:	Hold eyelids apart and flush e	eyes with plenty of wa	ater for at least 1	5 minutes. Have eyes examined
		-	and tested by medical person			-
	In Case	of Ingestion:	Wash out mouth with water p	rovided person is cor	nscious. Never gi	ve anything by mouth to an
			unconscious person. Get med	dical attention. Do NO	OT induce vomitir	ng unless directed to do so by
			medical personnel.			
			Section 5. Fire	Fighting Mea	isures	
5.1	Suitable	e Extinguishing	Use alcohol-resistant foam, c	arbon dioxide, water	, or dry chemical	spray.
	Media:		Use water spray to cool fire-e	exposed containers.		
	Unsuita	ble Extinguishing	A solid water stream may be	inefficient.		
	Media:					
5.2	Flamma	able Properties an	dNo data available.			
	Hazards	s:				
			No data available.			
	Flash P	't:	No data.			
	Explosi	ive Limits:	LEL: No data.	UEL: No dat	ta.	
		nition Pt:	No data.			
5.3	-		s: As in any fire, wear self-conta	ained breathing appa	ratus pressure-de	emand (NIOSH approved or
	i në rig	ining modulotions	equivalent), and full protectiv		-	

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	S	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 A	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.
	Section	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	NOSH 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
	V	Vash thoroughly after handling.
	١	No data available.
	Se	ction 9. Physical and Chemical Properties
9.1	Information on Basic Physic	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 i	mm No data.
	Hg):	
	Vapor Density (vs. Air = 1):	No data.
		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	);				
	Octanol/	Water Partition		No data.					
	Coefficie	ent:							
	Autoigni	tion Pt:		No data.					
	-	osition Temperat	ure:	No data.					
	Viscosity	-		No data.					
9.2	Other Inf								
0.2	Percent			No data.					
		ar Formula & Weig	abt	C16H11CIN4	294.7				
	Molecule		-						
				ection 10. S	tability and	Reactiv	ty		
10.1	Reactivit	-		ta available.					
10.2	Stability			ole [ ] Stable [					
10.3	Stability	Note(s):	Stable	if stored in accorda	ance with informa	tion listed on	the product in	nsert.	
	Polymer	ization:	Will oc	cur [ ] Will no	ot occur [X]				
10.4	Conditio	ns To Avoid:	No da	a available.					
10.5	Incompa	tibility - Materials	strong	oxidizing agents					
	To Avoid	1:							
10.6	Hazardo	us	carbor	n dioxide					
	Decomp	osition or	carbor	n monoxide					
	Byprodu	cts:	hydrog	gen chloride					
			nitroge	en oxides					
			Se	ection 11. To	xicological	Informat	ion		
11.1	Informat	ion on	The to	xicological effects of	of this product hav	/e not been t	horoughly stu	died.	
	Toxicolo	gical Effects:		blam - Toxicity Data	-				339 mg/kg;
		0	Subcu	taneous LD50 (rat)	: 3580 mg/kg; Ora	al LD50 (mou	lse): 600 mg/l	kg; Intraperitor	neal LD50
			(mous	e): 438 mg/kg; Sub	ocutaneous LD50	(mouse): 317	70 mg/kg;		
	Chronic	Toxicological	Estazo	blam - Investigated	as a drug, reprod	uctive effecte	or, and tumori	gen.	
	Effects:		Only s	elect Registry of To	oxic Effects of Che	emical Subst	ances (RTEC	S) data is pres	sented here.
			See a	ctual entry in RTEC	S for complete in	formation.			
			Estazo	olam RTECS Numb	oer: XZ5473500				
CAS #	<b>#</b>	Hazardous Com	ponent	s (Chemical Name	e)	NTP	IARC	ACGIH	OSHA
2997	′5-16-4	Estazolam				n.a.	3	n.a.	n.a.
		•	S	Section 12. E	cological In	formatio	, n	•	
12.1	Toxicity:			release into the env					
			Runof	f from fire control or	r dilution water ma	ay cause pol	ution.		
12.2	Persiste	nce and	No da	ta available.					
	Degrada	bility:							
12.3	Bioaccu	mulative	No da	a available.					
	Potentia	I:							
12.4	Mobility	in Soil:	No dat	ta available.					
12.5	-	of PBT and vPvB							
	assessm		i io ua						
10.0			No de						
12.6	Uther ad	verse effects:	INO DA	ta available.					
								М	ulti-region format

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14.1       LAND TRANSI         DOT Proper Shipp         DOT Hazard Class         UN/NA Number:         14.1       LAND TRANSI         ADR/RID Shipping         UN Number:         Hazard Class:         14.1       LAND TRANSI         ADR/RID Shipping         UN Number:         Hazard Class:         14.3       AIR TRANSPO         ICAO/IATA Shipping         Additional Transport         Information:         EPA SARA (Superfund         29975-16-4       Estaz	PORT (US DOT): ping Name: Not of s: PORT (European ADI g Name: Not of ORT (ICAO/IATA): ing Name: Not of Transpor Second Amendments and rdous Components (	ection 14. Trail langerous goods. R/RID): langerous goods. t in accordance with ction 15. Regu Reauthorization Ac	nsport Informa local, state, and fede ulatory Inform	ation ral regulations.		
DOT Proper Shipp DOT Hazard Class UN/NA Number: 14.1 LAND TRANSI ADR/RID Shipping UN Number: Hazard Class: 14.3 AIR TRANSPO ICAO/IATA Shippi Additional Transport Information: EPA SARA (Superfun CAS # Hazar 29975-16-4 Estaz	PORT (US DOT): ping Name: Not of s: PORT (European ADI g Name: Not of ORT (ICAO/IATA): ing Name: Not of Transpor Second Amendments and rdous Components (	langerous goods. R/RID): langerous goods. t in accordance with ction 15. Regu Reauthorization Ac	local, state, and fede	ral regulations.		
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UN Number: Hazard Class: 14.3 AIR TRANSPO ICAO/IATA Shipp Additional Transport Information: EPA SARA (Superfun CAS # Hazar 29975-16-4 Estaz	ORT (ICAO/IATA): ing Name: Not o Transpor Sec ad Amendments and rdous Components (	langerous goods. t in accordance with Ction 15. Regu Reauthorization Ac	ulatory Inform			
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14.3     AIR TRANSPOLICAO/IATA Shippil       Additional Transport       Information:       EPA SARA (Superfunction)       CAS #       Hazar       29975-16-4       Estaz       CAS #       Hazar	ing Name: Not o Transpor Sec ad Amendments and rdous Components (	t in accordance with ction 15. Regu Reauthorization Ac	ulatory Inform			
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CAS #         Hazar           29975-16-4         Estaz           CAS #         Hazar	nd Amendments and rdous Components (	Reauthorization Ac	•	ation		
29975-16-4 Estaz CAS # Hazar	nd Amendments and rdous Components (	Reauthorization Ac	•	allon		
CAS #         Hazar           29975-16-4         Estaz           CAS #         Hazar	rdous Components (					
CAS # Hazai	olam	Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
			No	No	No	
	rdous Components (	Chemical Name)	Other US EPA o	r State Lists		
			CAA HAP,ODC: PROP.65: No	No; CWA NPDES	: No; TSCA: No; CA	
Regulatory Informatic Statement:	n This SDS No.1272/		cordance with 29 CFF	R 1910.1200 and R	egulation (EC)	
	ç	Section 16. O	ther Information	on		
Revision Date:	08/22/20	)17				
Additional Information	n About No data a	vailable.				
This Product:						
Company Policy or Di	currently express c use. Use	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 warrant 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.				