

Revision: 05/21/2018

	<b>a</b> .		EC) No. 1272/2008				
	Section 1. I	Identification of the Substance/Mixture and of th	e Company/Undertaking				
.1	Product Code: Product Name: Synonyms:	22959 Cisatracurium (besylate) (1R,1'R,2R,2'R)-2,2'-[1,5-pentanediylbis[oxy(3-oxo-3,1-propanediyl)]]bis[1-[(3,4-dimethoxypher I)methyl]-1,2,3,4-tetrahydro-6,7-dimethoxy-2-methyl-isoquinolinium, dibenzenesulfonate; Cisatracurium Besilate;					
.2	Relevant identified uses of the substance or mixture and uses advised against:						
	Relevant identified uses: For research use only, not for human or veterinary use.						
.3	Details of the Supplier of t	he 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 nun						
	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				
2.1	Classification of the Subst	tance or Mixture					
	Acute Toxicity: Oral, Cat						
2.2	Label Elements:						
	GHS Signal Word: GHS Hazard Phrases:	Danger					
	GHS Hazard Phrases: H301: Toxic if swallowed.						
	GHS Hazard Phrases: H301: Toxic if swallowed. GHS Precaution Phrases	5:					
	GHS Hazard Phrases: H301: Toxic if swallowed. GHS Precaution Phrases P264: Wash {hands} thoro	<b>s:</b> bughly after handling.					
	GHS Hazard Phrases: H301: Toxic if swallowed. GHS Precaution Phrases P264: Wash {hands} thoro GHS Response Phrases	<b>s:</b> bughly after handling.	/physician.				
	GHS Hazard Phrases: H301: Toxic if swallowed. GHS Precaution Phrases P264: Wash {hands} thoro GHS Response Phrases P301+310: IF SWALLOW	<b>s:</b> bughly after handling. <b>:</b> ED: Immediately call a POISON CENTER or doctor.	/physician.				
	GHS Hazard Phrases: H301: Toxic if swallowed. GHS Precaution Phrases P264: Wash {hands} thoro GHS Response Phrases P301+310: IF SWALLOW P330: Rinse mouth. GHS Storage and Dispos	<b>s:</b> bughly after handling. <b>:</b> ED: Immediately call a POISON CENTER or doctor.					
2.3	GHS Hazard Phrases: H301: Toxic if swallowed. GHS Precaution Phrases P264: Wash {hands} thoro GHS Response Phrases P301+310: IF SWALLOW P330: Rinse mouth. GHS Storage and Dispos	s: bughly after handling. : ED: Immediately call a POISON CENTER or doctor. sal Phrases:					
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Multi-region format



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		Sect	tion 3. Composition	/Information	on Ingredie	nts			
CAS # / RTECS #		Hazardous Components (Chemical Name)/ REACH Registration No.		Concentration	EC No./ EC Index No.	GHS Classification			
9694 NA	16-42-8	Cisatracurium (besylate)		100.0 %	620-579-9 NA	Acute Tox.(O) 3: H301			
			Section 4. Fi	rst Aid Measu	ures				
4.1	Descrip	otion of First Aid							
	Measur	es:							
	In Case	of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel.						
			Get immediate medical attention.						
	In Case	of Skin Contact:	clothing. Get medical attention if symptoms occur. Wash clothing before reuse.						
	In Case	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 persor						
	In Case	of Ingestion:	Wash out mouth with water p	-	-				
			medical personnel.	dical attention. Do N	OT Induce vomitin	ng unless directed to do so by			
			Section 5. Fire	Fighting Mea	asures				
5.1		e Extinguishing	Use alcohol-resistant foam, o		r, or dry chemical	spray.			
	Media:		Use water spray to cool fire-e	-					
		able Extinguishing	A solid water stream may be	inefficient.					
	Media:								
5.2		-	dNo data available.						
	Hazard	S:	No data available						
	Floch B	A.	No data available.						
	Flash P		No data. LEL: No data. UEL: No data.						
	=	ive Limits: nition Pt:							
5.2	-		No data.	ained breathing ann	arotuo proceuro d	amond (NIOSU approved or			
5.3	Fire Fig	inting instructions	s: As in any fire, wear self-conta	• • • •	-				
equivalent), and full protective gear to prevent contact with skin and eyes.					u eyes.				
			Section 6. Accider	ital Release N	Measures				
6.1		ive Precautions,	Avoid raising and breathing	•	-				
						eathing apparatus, or respirator,			
	-	ency Procedures:	and appropriate personal pro			, and heavy rubber gloves).			
6.2		nmental	Take steps to avoid release	into the environment	t, if safe to do so.				
	Precaut		<b>_</b>						
6.3			r Contain spill and collect, as						
Containment and CleaningTransfer to a chemical waste container for disposal in accordance with local regulatio					with local regulations.				
	Up:								
			Section 7. Har	ndling and Sto	orage				
7.1	Precau	tions To Be Taken	Avoid breathing dust/fume/gas/mist/vapours/spray.						
	in Hanc	lling:	Avoid prolonged or repeated exposure.						
7.2	Precau	tions To Be Taken	n Keep container tightly closed.						
	in Stori	ng:	Store in accordance with information listed on the product insert.						
	Multi-region for					Multi-region formation			



Multi-region format

	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.):	etc.): levels below recommended exposure limits.				
8.2.2	Personal protection equipment:					
	Eye Protection:	Safety glasses				
	Protective Gloves: 0	Compatible chemical-resistant gloves				
	Other Protective Clothing:Lab 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 showed				
	Wash thoroughly after handling.					
	١	lo 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 r	nm No data.				
	Hg):					
	Vapor Density (vs. Air = 1):	No data.				
	Specific Gravity (Water = 1)	: No data.				
	Solubility in Water:	No data.				
	Solubility Notes:	~10 mg/ml in PBS (pH 7.2); ~10 mg/ml in EtOH; ~30 mg/ml in DMSO & DMF;				
	Octanol/Water Partition Coefficient:	No data.				
	Autoignition Pt:	No data.				
	Decomposition Temperatur					
	Viscosity:	No data.				
9.2	Other Information					
5.2	Percent Volatile:	No data.				
	Molecular Formula & Weigh					



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			Section 10. Stability	and Reactiv	vity			
10.1	Reactivi	ty:	No data available.					
10.2	Stability:     Unstable []     Stable [X]							
10.3	-	Note(s):	Stable if stored in accordance with in		on the product	insert.		
	Polyme	ization:	Will occur [ ] Will not occur [ X	]				
10.4	Conditio	ons To Avoid:	No data available.					
10.5	Incompa	atibility - Materials	bases					
	To Avoi	d:						
10.6	Hazardous Decomposition or Byproducts:		carbon dioxide					
			carbon monoxide nitrogen oxides					
			sulfur oxides					
			Section 11. Toxicolog					
11.1	Information		The toxicological effects of this prod	luct have not been	thoroughly st	udied.		
		ogical Effects:						
CAS		·	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
9694	6-42-8	Cisatracurium (be	sylate)	n.a.	n.a.	n.a.	n.a.	
			Section 12. Ecologic	cal Informati	ion			
12.1	Toxicity	:	Avoid release into the environment.					
			Runoff from fire control or dilution water may cause pollution.					
12.2	Persiste	nce and	No data available.					
	Degrada	bility:						
12.3	Bioaccu	mulative	No data available.					
	Potentia	ıl:						
12.4	Mobility	in Soil:	No data available.					
12.5	Results	of PBT and vPvB	No data available.					
	assessn	nent:						
12.6	Other ad	verse effects:	No data available.					
			Section 13. Disposal	Considerati	ons			
13.1	Waste D	isposal Method:	Dispose in accordance with local, st					
			Section 14. Transpo	ort Informati	ion			
ـــــــــــــــــــــــــــــــــــــ	LAND T	RANSPORT (US I	-					
		r Shipping Name:	-	atracurium besylat	e)			
	OT Hazar		6.1 POISON	,	,			
U	UN/NA Number:		UN2811	Packing Grou	p:	III		
			POISON					
POISON 6								
			$\checkmark$					



14.1 LAND 1	RANSPORT (Eur	opean ADR/RID):				
ADR/RID S	hipping Name:	Toxic solid, organic, n.o.s. (Cisatracurium besylate)				
UN Number:		2811	Packing Group:		III	
Hazard Class:		6.1 - POISON	0			
14.3 AIR TR	ANSPORT (ICAO/	(IATA):				
	Shipping Name:		(Cisatracurium besvl	ate)		
UN Numbe		2811			111	
Hazard Cla		6.1 - POISON	Packing Group:		6.1	
			IATA Classification:		0.1	
Additional Tra	nsport	Transport in accordance with le		-	control Quantity Code of	
Information:		When sold in quantities of less	-	-		
		E1, E2, E4, or E5, this item me Therefore packaging does not		-	-	
				-		
		Section 15. Regu	latory informa	ation		
EPA SARA (Su	1	nents and Reauthorization Act	of 1986) Lists	-		
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
96946-42-8	Cisatracurium (b	esylate)	No	No	No	
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or	State Lists		
96946-42-8	Cisatracurium (b	esylate)	CAA HAP,ODC: N PROP.65: No	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No		
Regulatory Info Statement:	ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.				
		Section 16. Ot	her Informatic	n		
Revision Date:		05/21/2018				
Additional Info	rmation 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.				