

Revision: 08/20/2019 Supersedes Revision: 08/22/2013

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830 and US OSHA HCS 2015						
		Section 1. Ide	entification of the Substan	ce/Mixture and of t	he Company/U	ndertaking
1.1	Product Product Synony	Name:	14697 SUMO Polyclonal Antibo Small Ubiquitin Like Mod	-		
1.2	Relevan	t identified uses of t	he substance or mixture a	nd uses advised ag	gainst:	
	Releva	ant identified uses:	For research use only, no	ot for human or veter	inary use.	
1.3	Details	of the Supplier of the	Safety Data Sheet:			
	Comp	any Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	any		
	Web s	ite address:	www.caymanchem.com			
	Inform	nation:	Cayman Chemical Comp	any	+1 (734	4)971-3335
1.4	-	ncy telephone numb jency Contact:	er: CHEMTREC Within USA CHEMTREC Outside US			0)424-9300 3)527-3887
			Section 2. Haz	zards Identific	ation	
2.1	Classifi	cation of the Substar	nce or Mixture:			
2.2	Label E	lements:				
		Signal Word: Hazard Phrases:	None			
	Based	on evaluation of curre	ently available data this subs	stance or mixture is r	not classifiable ac	cording to GHS.
	GHS F	Precaution Phrases:				
	No ph	rases apply.				
	GHS F	Response Phrases:				
	-	rases apply.				
		Storage and Disposa				
			Storage and Section 13 for	-		
2.3			laterial may be irritating to th lay be harmful by inhalation		••	piratory tract.
	Effects		lay cause eye, skin, or resp	-	-	
						been thoroughly investigated.
		Sectio	n 3. Composition	/Information of	on Ingredie	nts
CAS			ents (Chemical Name)/	Concentration	EC No./	GHS Classification
		REACH Registration	n NO.		EC Index No.	
VZ47	7-14-5 25000	Sodium chloride 01-2119485491-33		57.0 %	231-598-3 NA	No GHS classifications apply.
	'-86-1 00000	Trizma base 01-2119957659-16		41.0 %	201-064-4 NA	
NA NA		SUMO Polyclonal Antib	ody	< 2.0 %	NA NA	No data available.

Multi-region format



			Section 4. First	Aid Measures					
4.1									
	Measures:								
	In Case of Inhalation:		e to fresh air. If not breath nediate medical attention.	ing, give artificial respiration or give oxygen by trai	ined personnel.				
	In Case of Skin Contact:		Immediately wash skin with soap and plenty of water for at least 20 minutes. Remove contaminated						
		clothing. Get medical attention if symptoms occur. Wash clothing before reuse.							
	In Case of Eye Contact:	Hold ey	Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes examined						
		and tested by medical personnel.							
	In Case of Ingestion:	Wash o	n out mouth with water provided person is conscious. Never give anything by mouth to an						
			scious person. Get medical attention. Do NOT induce vomiting unless directed to do so by al personnel.						
		S	ection 5. Fire Fi	ghting Measures					
5.1	Suitable Extinguishing	Use alc	ohol-resistant foam, carbo	on dioxide, water, or dry chemical spray.					
	Media:	Use wa	ter spray to cool fire-expo	osed containers.					
	Unsuitable Extinguishing	A solid	water stream may be inef	ficient.					
	Media:								
5.2	Flammable Properties an	dNo data	a available.						
	Hazards:								
			a available.						
	Flash Pt:	No data							
	Explosive Limits:	LEL: N		UEL: No data.					
	Autoignition Pt:	No data							
5.3	Fire Fighting Instructions		-	d breathing apparatus pressure-demand (NIOSH a part to prevent contact with skin and eyes.	approved or				
		Section	on 6. Accidental	Release Measures					
6.1	Protective Precautions,			, and provide adequate ventilation.					
	Protective Equipment and			IOSH approved self-contained breathing apparatu					
	Emergency Procedures:	-		tion (rubber boots, safety goggles, and heavy rubb	ber gloves).				
-	Environmental	Take s	teps to avoid release into	the environment, if safe to do so.					
	Precautions:	.							
	Methods and Material For			ropriate. ntainer for disposal in accordance with local regula	ationa				
	Up:	ig ransie			allons.				
		S	Section 7. Handl	ing and Storage					
7.1	Precautions To Be Taken	Avoid b	reathing dust/fume/gas/m	iist/vapours/spray.					
	in Handling:	Avoid p	rolonged or repeated exp	osure.					
7.2	Precautions To Be Taken Keep container tightly closed.								
	in Storing:	Store in	accordance with informa	tion listed on the product insert.					
	Sec	tion 8.	Exposure Cont	rols/Personal Protection					
8.1	Exposure Parameters:								
CAS #	Chemical Name		Jurisdiction	Recommended Exposure Limits	Notations				
77-86-	1 Trizma base		ACGIH TLV	CEIL: 5 mg/m3 (salts)					
					,				
				Μ	lulti-region format				



	men	1			•	ersedes Revision: 08/22/2013		
77-86			France VL	TWA: 5 r	ng/m3			
(conti	nued)	-						
		-	OSHA PELs	TWA: 5 r	-			
			Britain EH40	TWA: 5.0) mg/m3	Skin Absorptio		
3.2	Exposure Controls:				<i></i>			
8.2.1 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering con						g controls to control airborr		
	(Ventilation etc.): levels below recommended exposure limits.							
8.2.2	Personal protection equi	-						
	Eye Protection:	-	glasses					
	Protective Gloves:	-	atible chemical-resista	ant gloves				
	Other Protective Clothing:Lab coat							
	Respiratory Equipment NIOSH approved respirator, as conditions warrant.							
	(Specify Type):							
	Work/Hygienic/Maintena	n Do not	take internally.					
	ce Practices:				hould be equipped with an e	yewash and a safety show		
		Wash	thoroughly after hand	ling.				
		No dat	a available.					
	S	Sectior	n 9. Physical	and Che	mical Properties			
9.1	Information on Basic Phy	/sical an	d Chemical Properti	ies				
	Physical States:		[]Gas []Liqu	id [X]So	lid			
	Appearance and Odor:		Affinity-purified polyc	clonal antibody	y - lyophilized powder			
	pH:		7.4					
	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	or mm	No data.					
	Hg):							
	Vapor Density (vs. Air =	1):	No data.					
	Specific Gravity (Water = 1):		No data.					
	Solubility in Water:		No data.					
	Octanol/Water Partition		No data.					
	Coefficient:							
	Autoignition Pt:		No data.					
	Decomposition Temperature:							
	Viscosity:		No data.					
9.2	Other Information							
9.2	Percent Volatile:		No data.					



	_		Section 10. Stability a	nd Reacti	vity		_		
10.1	Reactiv	ity:	No data available.		-				
10.2	Stability	' :	Unstable [] Stable [X]						
10.3	Stability	Note(s):	Stable if stored in accordance with inf	ormation listed of	on the product	insert.			
	Polyme	rization:	Will occur [] Will not occur [X]						
10.4	Conditio	ons To Avoid:	No data available.						
10.5	Incomp	atibility - Materials	s strong oxidizing agents						
	To Avoi	d:							
10.6	Hazardous Decomposition or		carbon dioxide						
			carbon monoxide						
	Byprod	ucts:	hydrogen chloride gas						
			nitrogen oxides						
			sodium oxides						
			Section 11. Toxicologie	cal Informa	ation				
11.1	Informa	tion on	The toxicological effects of this produc	ct have not beer	n thoroughly st	udied.			
	Toxicol	ogical Effects:							
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
764	7-14-5	Sodium chloride		n.a.	n.a.	n.a.	n.a.		
77	'-86-1	Trizma base		n.a.	n.a.	n.a.	n.a.		
	NA	SUMO Polyclona	l Antibody	n.a.	n.a.	n.a.	n.a.		
		ł	Section 12. Ecologica	al Informat	ion	ł			
12.1	Toxicity		Avoid release into the environment.						
12.1	TOXICITY	•	Runoff from fire control or dilution water may cause pollution.						
12.2	Porsiste	ence and	No data available.						
12.2	Degrada		No data available.						
12.3		imulative							
12.5	Potentia	_							
12.4	Mobility		No data available.						
	-								
			3 No data available.						
12.5	assessment:		No data available.						
		dverse effects:							
12.5		dverse effects:		<u>`onsiderat</u>	ions				
	Other a	dverse effects:	Section 13. Disposal 0						



Section 14. Transport Information										
14.1 LAND 1	RANSPORT (US I	DOT):								
DOT Proper Shipping Name: Not dangerous goods.										
DOT Hazard Class:										
UN/NA Nu	mber:									
	RANSPORT (Euro									
ADR/RID Shipping Name: Not dangerous goods.										
UN Number: Hazard Class:										
Hazard Class: 14.3 AIR TRANSPORT (ICAO/IATA):										
ICAO/IATA Shipping Name: Not dangerous goods.										
	Additional Transport Transport in accordance with local, state, and federal regulations.									
Information:										
		Section 15. Regu	latory Informa	ation						
EPA SARA (Si	perfund Amendm	ents and Reauthorization Act			J					
CAS #	-	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)					
7647-14-5	Sodium chloride		No	No	No					
77-86-1	Trizma base		No	No	Yes-Cat. N106					
NA SUMO Polyclonal A		I Antibody	No	No	No					
CAS # Hazardous Com		ponents (Chemical Name)	Other US EPA or State Lists							
7647-14-5 Sodium chloride			No; TSCA: Yes -							
77-86-1 Trizma base			CAA HAP,ODC: Yes - Cat.; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No							
NA SUMO Polyclona		I Antibody	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No							
Regulatory Info	ormation	This SDS was prepared in acc	ordance with 29 CFR	1910.1200 and Re	egulation (EC)					
Statement:		No.1272/2008.								
		Section 16. Ot	her Informatio	on						
Revision Date:		08/20/2019								
Additional Info This Product:	rmation About	No data available.								
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