

ay	man		SAM-Binding	Site Assay B		Revision: 05/07/2015 Supersedes Revision: 03/14/2012
		acc	ording to Regulation (EC) No. 190)7/2006 as amended b		•
		Section 1.	Identification of the Substar	nce/Mixture and of	f the Company/U	ndertaking
1.1	Product Co Product Na		600491 SAM-Binding Site Assay	Buffer (10X)		Ŭ
1.2	Relevant id	lentified uses o	f the substance or mixture a	and uses advised a	against:	
	Relevant	identified uses	: For research use only, n	ot for human or vete	erinary use.	
1.3	Details of t	he Supplier of t	he Safety Data Sheet:			
	Company		Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	pany		
	Web site		www.caymanchem.com			
	Information		Cayman Chemical Comp	bany	+1 (73	4)971-3335
1.4		telephone nun				
	Emergen	cy Contact:	CHEMTREC Within USA CHEMTREC Outside US		-	0)424-9300 3)527-3887
			Section 2. Ha	zards Identifi	ication	
2.2.1	GHS Sigr GHS Haz H316: Ca GHS Pree No phrase GHS Res P332+313 GHS Stor Please re Adverse H	aal Word: ard Phrases: uses mild skin ir caution Phrases es apply. ponse Phrases 3: If skin irritation rage and Dispos	s: n occurs, get medical advice/a sal Phrases: for Storage and Section 13 for Causes mild skin irritation. Material may be irritating to t May be harmful by inhalation May cause eye or respiratory	ttention. Disposal information he mucous membra h, ingestion, or skin a v system irritation.	anes and upper res absorption.	spiratory tract. t been thoroughly investigated
		Sect	ion 3. Composition		-	
	#/ Ha		onents (Chemical Name)/	Concentration	EC No./ EC Index No.	GHS Classification
CAS RTEC	CS# RI	EACH Registrat	ion No.			



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			Section 4	4. First Aid M	easures	
4.1	Descrip	tion of First Aid				
	Measure	es:				
	In Case	of Inhalation:	Remove to fresh air. I Get immediate medica		artificial respiration or give oxygen	by trained personnel.
	In Case	of Skin Contact:	-		y of water for at least 15 minutes. s occur. Wash clothing before reus	
	In Case	of Eye Contact:	-	d flush eyes with pler	ty of water for at least 15 minutes	
	In Case	of Ingestion:			n is conscious. Never give anythi . Do NOT induce vomiting unless	
			Section 5.	Fire Fighting	Measures	
5.1	Suitable	Extinguishing	Use alcohol-resistant	foam, carbon dioxide	e, water, or dry chemical spray.	
	Media:		Use water spray to co	ool fire-exposed conta	ainers.	
	Unsuita	ble Extinguishing	A solid water stream	may be inefficient.		
	Media:					
5.2	Flamma	ble Properties an	dNo data available.			
	Hazards	:				
	Flash Pt	t:	No data.			
	Explosiv	ve Limits:	LEL: No data.	UEL:	No data.	
	Autoign	ition Pt:	No data.			
5.3	Fire Fig	hting Instructions	s: As in any fire, wear se	elf-contained breathir	ng apparatus pressure-demand (N	IIOSH approved or
			equivalent), and full p	protective gear to prev	vent contact with skin and eyes.	
			Section 6. Ac	cidental Relea	ase Measures	
6.1	Protecti	ve Precautions,	Avoid breathing vapo	ors and provide adeq	uate ventilation.	
	Protecti	ve Equipment and	d As conditions warran	it, wear a NIOSH app	roved self-contained breathing ap	paratus, or respirator,
	Emerge	ncy Procedures:	and appropriate pers	onal protection (rubb	er boots, safety goggles, and hea	vy rubber gloves).
6.2	Environ		Take steps to avoid r	release into the envir	onment, if safe to do so.	
	Precaut					
6.3			r Contain spill and coll			
		ment and Cleanir	ng Transfer to a chemic	al waste container fo	r disposal in accordance with loca	l regulations.
	Up:					
			Section 7.	Handling an	d Storage	
7.1	Precaut	ions To Be Taken	Avoid breathing dust/	fume/gas/mist/vapou	rs/spray.	
	in Hand	ling:	Avoid prolonged or re	epeated exposure.		
7.2	Precaut	ions To Be Taken	Keep container tightly	/ closed.		
	in Storir	ng:	Store in accordance v	with information listed	on the product insert.	
		Sec	tion 8. Exposu	re Controls/P	ersonal Protection	
8.1	Exposur	e Parameters:				
CAS	#	Partial Chemical	Name	Britain EH40	France VL	Europe
	NA	SAM-Binding Site	e Assay Buffer (10X)	No data.	No data.	No data.
						Multi-region format



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 2.1 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airborn (Ventilation etc.): levels below recommended exposure limits. 2.2 Personal protection equipment: Eye Protection: Safety glasses Protective Gloves: Compatible chemical-resistant gloves Other Protective Colothing: Lab cost 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 facility and a safety shower. Wash thoroughly after handling. No data available. Section 9. Physical and Chemical Properties Physical States: []Gas []Solid Appearance and Odor: A solution of 10X assay buffer Metting Point: No data. Flash Pit: No data. Flash Pit: No data. Flash Pit: No data. Flash Pit: No data. Vapor Pressure (vs. Air or mm No data. Hg): Vapor Density (vs. Air = 1): No data. Solubility in Water: No data. Autoignition Pit: No data. Autoignition Pit: No data. Autoignition Pit: No data. Autoignition Pit: No data. Solubility in Water: No data. Autoignition Pit: No data. Parent Volatile: No data. Autoignition Pit: No data.			Doutiol Chamber	Nomo			evision: 03/14/2012
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Specific Gravity (Water = 1): No data. Solubility in Water: No data. Autoignition Pt: No data. 2 Other Information Percent Volatile: No data. 2 Other Information Percent Volatile: No data. 2 Section 10. Stability and Reactivity 0.1 Reactivity: No data available. 0.2 Stability: Unstable [] Stable [X] 0.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert. Polymerization: Will occur [] Will not occur [X] 0.4 Conditions To Avoid: No data available. 0.5 Incompatibility - Materials strong oxidizing agents To Avoid: No data available. 0.6 Hazardous carbon dioxide Decomposition or carbon monoxide nitrogen oxides Byproducts: nitrogen oxides nitrogen oxides			ensity (vs. Air = 1): No data.			
Solubility in Water: No data. Autoignition Pt: No data. 20 Other Information Percent Volatile: No data. 21 Other Information Percent Volatile: No data. 22 Section 10. Stability and Reactivity 0.1 Reactivity: No data available. 0.2 Stability: Unstable [] 0.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert. Polymerization: Will occur [] Will not occur [X] 0.4 Conditions To Avoid: No data available. 0.5 Incompatibility - Materials strong oxidizing agents To Avoid: To Avoid: 0.6 Hazardous carbon dioxide Decomposition or carbon monoxide Byproducts:		-		,			
Autoignition Pt: No data. 2 Other Information Percent Volatile: No data. 2 Section 10. Stability and Reactivity 0.1 Reactivity: No data available. 0.2 Stability: Unstable [] 0.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert. Polymerization: Will occur [] Will not occur [X] 0.4 Conditions To Avoid: No data available. 0.5 Incompatibility - Materials strong oxidizing agents To Avoid: Carbon dioxide 0.6 Hazardous carbon dioxide Decomposition or carbon monoxide Byproducts: nitrogen oxides							
2 Other Information Percent Volatile: No data. 2 Section 10. Stability and Reactivity 0.1 Reactivity: No data available. 0.2 Stability: Unstable [] Stable [X] 0.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert. Polymerization: Will occur [] Will not occur [X] 0.4 Conditions To Avoid: No data available. 0.5 Incompatibility - Materials strong oxidizing agents To Avoid: Carbon dioxide 0.6 Hazardous carbon dioxide Decomposition or carbon monoxide Byproducts: nitrogen oxides			-				
Percent Volatile: No data. Section 10. Stability and Reactivity 0.1 Reactivity: No data available. 0.2 Stability: Unstable [] Stable [X] 0.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert. Polymerization: Will occur [] Will not occur [X] 0.4 Conditions To Avoid: No data available. 0.5 Incompatibility - Materials strong oxidizing agents To Avoid: To Avoid: 0.6 Hazardous carbon dioxide Decomposition or carbon monoxide Byproducts:		-		No dala.			
Section 10. Stability and Reactivity 0.1 Reactivity: No data available. 0.2 Stability: Unstable [] Stable [X] 0.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert. Polymerization: Will occur [] Will not occur [X] 0.4 Conditions To Avoid: No data available. 0.5 Incompatibility - Materials strong oxidizing agents To Avoid: No data available. 0.6 Hazardous carbon dioxide Decomposition or carbon monoxide atbom monoxide Byproducts: nitrogen oxides	9.2			NI 17			
0.1 Reactivity: No data available. 0.2 Stability: Unstable [] Stable [X] 0.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert. Polymerization: Will occur [] Will not occur [X] 0.4 Conditions To Avoid: No data available. 0.5 Incompatibility - Materials strong oxidizing agents To Avoid: Carbon dioxide Decomposition or carbon monoxide Byproducts: nitrogen oxides		Percent	Volatile:			·· ·/	
 0.2 Stability: Unstable [] Stable [X] 0.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert. Polymerization: Will occur [] Will not occur [X] 0.4 Conditions To Avoid: No data available. 0.5 Incompatibility - Materials strong oxidizing agents To Avoid: 0.6 Hazardous carbon dioxide Decomposition or carbon monoxide Byproducts: nitrogen oxides 					. Stability and Reac	tivity	
 0.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert. Polymerization: Will occur [] Will not occur [X] 0.4 Conditions To Avoid: No data available. 0.5 Incompatibility - Materials strong oxidizing agents To Avoid: 0.6 Hazardous carbon dioxide Decomposition or carbon monoxide Byproducts: nitrogen oxides 	0.1		-				
Polymerization: Will occur [] Will not occur [X] 0.4 Conditions To Avoid: No data available. 0.5 Incompatibility - Materials strong oxidizing agents To Avoid: To Avoid: 0.6 Hazardous carbon dioxide Decomposition or carbon monoxide Byproducts: nitrogen oxides		-					
 Conditions To Avoid: No data available. Incompatibility - Materials strong oxidizing agents To Avoid: Hazardous carbon dioxide Decomposition or carbon monoxide Byproducts: nitrogen oxides 	0.3	-				a on the product insert.	
0.5 Incompatibility - Materials strong oxidizing agents To Avoid:		-			II NOT OCCUR [X]		
To Avoid: Carbon dioxide 0.6 Hazardous carbon dioxide Decomposition or carbon monoxide Byproducts: nitrogen oxides	0.4						
0.6Hazardouscarbon dioxideDecomposition orcarbon monoxideByproducts:nitrogen oxides	0.5	•	-	s strong oxidizing agen	ts		
Decomposition orcarbon monoxideByproducts:nitrogen oxides							
Byproducts: nitrogen oxides	0.6						
		=					
Multi-region form		Byprodu	ucts:	nitrogen oxides			
							Multi-region form



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			Sectio	n 11. Toxico	logical	Informa	ation				
11.1	Informat	tion on	The toxicolo	gical effects of this	product hav	/e not beer	n thoroughly stu	udied.			
	Toxicolo	ogical Effects:									
Carci	nogenicity	y :	NTP? No	IARC Monograp	hs? No	OSHA Re	egulated? No				
CAS	#	Hazardous Com	ponents (Ch	emical Name)		NTP	IARC	ACGIH	OSHA		
	NA	SAM-Binding Site	Assay Buffe	r (10X)		n.a.	n.a.	n.a.	n.a.		
		·	Secti	on 12. Ecolo	gical Ir	format	ion	·			
12.1	Toxicity	:	Avoid releas	e into the environm	ient.						
			Runoff from fire control or dilution water may cause pollution.								
12.2	Persiste	nce and	No data ava	ilable.							
	Degrada	ıbility:									
12.3	Bioaccu	mulative	No data ava	ilable.							
	Potentia	l:									
12.4	Mobility	in Soil:	No data ava	ilable.							
12.5	Results	of PBT and vPvB	No data ava	ilable.							
	assessn	nent:									
12.6	Other ac	lverse effects:	No data ava	ilable.							
			Sectio	on 13. Dispos	sal Con	siderat	ions				
13.1	Waste D	isposal Method:	Dispose in a	ccordance with loca	al, state, an	d federal r	egulations.				
			Sect	tion 14. Tran	sport Ir	offormat	ion				
14.1	LAND T	RANSPORT (US I	DOT):								
D	OT Prope	r Shipping Name:	Not dan	gerous goods.							
D	OT Hazar	d Class:									
U	N/NA Nur	nber:									
14.1	LAND T	RANSPORT (Euro	opean ADR/R	RID):							
Α	DR/RID S	hipping Name:	Not dan	gerous goods.							
U	N Numbe	r:									
н	azard Cla	SS:									
14.3	AIR TR	ANSPORT (ICAO/I	ATA):								
IC	CAO/IATA	Shipping Name:	Not dan	gerous goods.							
Addi	tional Trai	nsport	Transport in	accordance with Ic	ocal, state, a	and federal	l regulations.				
Infor	mation:										
			Secti	on 15. Regu	latory Ir	nformat	tion				
EPA	SARA (Su	perfund Amendm	ents and Re	authorization Act	of 1986) Li	sts					
CAS	#	Hazardous Com		-	S. 302 (EHS)	S. 304 RQ	S. 31	3 (TRI)		
	NA	SAM-Binding Site	Assay Buffe	r (10X)	No		No	No			
CAS	#	Hazardous Com	ponents (Ch	emical Name)	Other US	S EPA or S	State Lists				
	NA	SAM-Binding Site	e Assay Buffe	r (10X)	CAA HA PROP.6		o; CWA NPDE	S: No; TSCA	: No; CA		
		•			•						



Revision: 05/07/2015 persedes Revision: 03/14/2012

CHEMICAL	Supersedes Revision: 03/14/2012
Regulatory Information	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)
Statement:	No.1272/2008.
	Section 16. Other Information
Revision Date:	05/07/2015
Additional Information About	No data available.
This Product:	
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.



Revision:	05/12/2015
Supersedes Revision:	03/14/2012

						Supersedes Revision: 03/14/2012			
		acco	ording to Regulation (EC) No. 190	7/2006 as amended by	y (EC) No. 1272/200	8			
		Section 1. I	dentification of the Substar	nce/Mixture and of	the Company/Ur	ndertaking			
.1	Product Product		600493 SAM-Binding Site Probe						
.2	Relevan	nt identified uses of	f the substance or mixture a	and uses advised a	gainst:				
	Releva	ant identified uses:	For research use only, no	ot for human or vete	rinary use.				
.3	Details	of the Supplier of t	he Safety Data Sheet:						
	Comp	any Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	pany					
	Web s	ite address:	www.caymanchem.com						
	Inform	nation:	Cayman Chemical Comp	pany	+1 (734	4)971-3335			
.4	Emerge	ncy telephone nun	nber:						
	Emerg	gency Contact:	CHEMTREC Within USA	and Canada:	+1 (80	0)424-9300			
			CHEMTREC Outside US	A and Canada:	+1 (70	3)527-3887			
			Section 2. Haz	zards Identifi	cation				
2.1	Classifi	cation of the Subst	ance or Mixture:						
2.1.1	Classif	ication according t	o Regulation (EC) No 1272/2	2008 [CLP]:					
.2	Label E	lements:							
.2.1	Labelin	ig according to Reg	gulation (EC) No 1272/2008	[CLP]:					
	GHS S	Signal Word:	None						
		Hazard Phrases:							
	Based	l on evaluation of cu	rrently available data this sub	stance or mixture is	not classifiable ac	cording to GHS.			
	GHS F	Precaution Phrases	S:						
	No phrases apply.								
	No ph	rases apply.							
	•	rases apply. Response Phrases	:						
	GHS I		:						
	GHS I No ph	Response Phrases							
	GHS I No ph GHS S	Response Phrases rases apply. Storage and Dispos		Disposal informatio	n.				
2.3	GHS F No ph GHS S Please Advers	Response Phrases rases apply. Storage and Dispose e refer to Section 7 f e Human Health	sal Phrases: or Storage and Section 13 for Material may be irritating to t	he mucous membra	nes and upper res	piratory tract.			
2.3	GHS F No ph GHS S Please Advers	Response Phrases rases apply. Storage and Dispose e refer to Section 7 f	sal Phrases: or Storage and Section 13 for Material may be irritating to t May be harmful by inhalation	he mucous membra , ingestion, or skin a	nes and upper res absorption.	spiratory tract.			
2.3	GHS F No ph GHS S Please Advers	Response Phrases rases apply. Storage and Dispose e refer to Section 7 f e Human Health	sal Phrases: or Storage and Section 13 for Material may be irritating to the May be harmful by inhalation May cause eye, skin, or resp	he mucous membra , ingestion, or skin a iratory system irritat	nes and upper res absorption. ion.				
2.3	GHS F No ph GHS S Please Advers	Response Phrases rases apply. Storage and Dispose e refer to Section 7 f e Human Health and Symptoms:	sal Phrases: or Storage and Section 13 for Material may be irritating to the May be harmful by inhalation May cause eye, skin, or resp	he mucous membra , ingestion, or skin a iratory system irritat , the toxicological p	nes and upper res absorption. ion. roperties have not	been thoroughly investigated.			
	GHS I No ph GHS S Please Advers Effects	Response Phrases rases apply. Storage and Dispose e refer to Section 7 f e Human Health and Symptoms: Section	sal Phrases: or Storage and Section 13 for Material may be irritating to the May be harmful by inhalation May cause eye, skin, or resp To the best of our knowledge ion 3. Composition	he mucous membra , ingestion, or skin a iratory system irritat a, the toxicological pr /Information	nes and upper res absorption. ion. roperties have not on Ingredie	been thoroughly investigated.			
CAS	GHS F No ph GHS S Please Advers Effects	Response Phrases rases apply. Storage and Dispose e refer to Section 7 f e Human Health and Symptoms: Section	sal Phrases: or Storage and Section 13 for Material may be irritating to th May be harmful by inhalation May cause eye, skin, or resp To the best of our knowledge ion 3. Composition onents (Chemical Name)/	he mucous membra , ingestion, or skin a iratory system irritat , the toxicological p	nes and upper res absorption. ion. roperties have not	been thoroughly investigated.			
2.3 CAS : RTEC	GHS F No ph GHS S Please Advers Effects	Response Phrases rases apply. Storage and Dispose e refer to Section 7 f e Human Health and Symptoms: Section Hazardous Comp	sal Phrases: or Storage and Section 13 for Material may be irritating to the May be harmful by inhalation May cause eye, skin, or resp To the best of our knowledge ion 3. Composition onents (Chemical Name)/ ion No.	he mucous membra , ingestion, or skin a iratory system irritat a, the toxicological pr /Information	nes and upper res absorption. ion. roperties have not on Ingrediel EC No./	been thoroughly investigated.			



SAFETY DATA SHEET **SAM-Binding Site Probe**

Revision: 05/12/2015 Supersedes Revision: 03/14/2012

			Section	4. First Aid Me	easures				
4.1	Descri Measu	ption of First Aid res:							
	In Cas	e of Inhalation:	Remove to fresh air. Get immediate medi		rtificial respiration or give oxy	gen by trained personnel.			
	In Cas	e of Skin Contact:	-		of water for at least 15 minut				
	In Cas	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 Cas	e of Ingestion:			n is conscious. Never give any Do NOT induce vomiting unle				
			Section 5	. Fire Fighting	Measures				
5.1	Suitab	le Extinguishing	Use alcohol-resistar	nt foam, carbon dioxide	water, or dry chemical spray				
	Media:	:	Use water spray to	cool fire-exposed conta	iners.				
	Unsuit	able Extinguishing	A solid water stream	n may be inefficient.					
	Media:	:							
5.2	Flamm	able Properties an	d No data available.						
	Hazaro	ds:							
	Flash	Pt:	No data.						
	Explos	sive Limits:	LEL: No data.	UEL:	No data.				
	Autoig	inition Pt:	No data.						
5.3	Fire Fi	ghting Instructions	-		g apparatus pressure-demand ent contact with skin and eyes				
			Section 6. Ad	ccidental Relea	se Measures				
6.1	Protec	tive Precautions,	Avoid breathing var	oors and provide adequ	ate ventilation.				
	Protec	tive Equipment an	d As conditions warra	ant, wear a NIOSH appr	oved self-contained breathing	apparatus, or respirator,			
	Emerg	ency Procedures:	and appropriate per	rsonal protection (rubbe	er boots, safety goggles, and h	neavy rubber gloves).			
6.2	Enviro	onmental	Take steps to avoid	I release into the enviro	nment, if safe to do so.				
	Precau	utions:							
6.3			r Contain spill and co						
	Contai Up:	inment and Cleanir	ngTransfer to a chemi	cal waste container for	disposal in accordance with lo	ocal regulations.			
			Section 7	. Handling and	d Storage				
7.1	Precau	utions To Be Taken	-	t/fume/gas/mist/vapour	s/spray.				
	in Han		Avoid prolonged or						
7.2			Keep container tight	-					
	in Stor	ring:	Store in accordance	with information listed	on the product insert.				
		Sec	tion 8. Expos	ure Controls/Pe	ersonal Protection				
8.1	Exposi	ure Parameters:							
CAS	#	Partial Chemical	Name	Britain EH40	France VL	Europe			
	NA	SAM-Binding Site	Probe	No data.	No data.	No data.			
						Multi-region format			



Revision: 05/12/2015

CAS	#	Partial Chemical	Name	OSHA TWA	ACGIH TWA	Other Limits
	NA	SAM-Binding Site	Probe	No data.	No data.	No data.
.2		ure Controls:		ļ		
.2.1	-	eering Controls	Use process en	closures, local exhaust v	rentilation, or other engineering of	controls to control airborr
	-	ation etc.):		commended exposure lin		
.2.2	Persor	nal protection equip	oment:			
	Eye Pr	otection:	Safety glasses			
	Protec	tive Gloves:	Compatible che	mical-resistant gloves		
	Other I	Protective Clothing	:Lab coat			
	Respir	atory Equipment	NIOSH approve	ed respirator, as conditior	ns warrant.	
	(Specif	fy Type):				
	Work/H	Hygienic/Maintenan	Do not take inte	rnally.		
	ce Pra	ctices:	Facilities storing	g or utilizing this material	should be equipped with an eye	wash facility and a safet
			shower.			
			•	ly after handling.		
			No data availab	le.		
		S	ection 9. F	hysical and Che	emical Properties	
.1	Informa	ation on Basic Phys	sical and Chemi	cal Properties		
	Physic	al States:	[] Gas	[]Liquid [X]S	olid	
	Appea	rance and Odor:	A red ly	ophilized powder		
	Melting	g Point:	No data			
		g Point:	No data			
	Flash I	Pt:	No data			
	-	ration Rate:	No data			
		ability (solid, gas):		available.		
	-	sive Limits:	LEL: No		UEL: No data.	
	-	Pressure (vs. Air o	r mm No data			
	Hg):					
	-	Density (vs. Air = 1	-			
	-	ic Gravity (Water =	-			
		lity in Water:	No data			
	-	nition Pt:	No data			
9.2	Other I	nformation				
	Percen	nt Volatile:	No data			
			Section	10. Stability an	d Reactivity	
0.1	Reactiv	vity:	No data availab	le.		
0.2	Stabilit	ty:	Unstable []	Stable [X]		
0.3		ty Note(s):			nation listed on the product inse	rt.
	Polym	erization:	Will occur []	Will not occur [X]		
0.4		tions To Avoid:	No data availab			
0.5	-	patibility - Materials	strong oxidizing	agents		
	To Avo					
0.6	Hazard		carbon dioxide			
		position or	carbon monoxid	le		
	Byprod	ducts:	nitrogen oxides			
						Multi-region for



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I1.1 Information on The toxicological effects of this product have not been thoroughly studied. Toxicological Effects: Toxicological Effects:							
		Hazardous Com	onents (Chemical Name) NTP		IARC	ACGIH	OSHA
NA SAM-Binding Site			Probe	n.a.	n.a.	n.a.	n.a.
			Section 12. Ecol	ogical Informa	ation	·	·
12.1	Toxicity	/:	Avoid release into the environm	ment.			
			Runoff from fire control or dilut	ion water may cause	pollution.		
12.2	Persiste Degrada	ence and ability:	No data available.				
12.3	Bioaccu Potentia	umulative al:	No data available.				
12.4	Mobility	/ in Soil:	No data available.				
12.5	Results assessi	of PBT and vPvB ment:	No data available.				
12.6	Other a	dverse effects:	No data available.				
			Section 13. Dispo	sal Considera	itions		
13.1	Waste [Disposal Method:	Dispose in accordance with lo				
			Section 14. Trar	nsport Informa	ation		
14.1	LAND 1	FRANSPORT (US I		•			
D		er Shipping Name:	-				
	OT Hazaı						
U	N/NA Nu	mber:					
14.1	LAND 1	TRANSPORT (Euro	opean ADR/RID):				
Α	DR/RID S	Shipping Name:	Not dangerous goods.				
U	N Numbe	er:					
н	azard Cla	ass:					
14.3	AIR TR	ANSPORT (ICAO/I	ATA):				
	CAO/IATA	Shipping Name:	Not dangerous goods.				
IC	tional Tra	nsport	Transport in accordance with	ocal, state, and feder	al regulations.		
Addit							
Addit	mation:						
Addit	mation:		Section 15. Regu	latory Information	ation		
Addit Infori EPA	SARA (SI		ents and Reauthorization Act	of 1986) Lists	1		
Addit Infori	SARA (Si #	Hazardous Com	ents and Reauthorization Act ponents (Chemical Name)	t of 1986) Lists S. 302 (EHS)	S. 304 RQ		3 (TRI)
Addit Infori EPA	SARA (SI		ents and Reauthorization Act ponents (Chemical Name)	of 1986) Lists	1	S. 31	3 (TRI)
Addit Infori EPA	SARA (Si # NA	Hazardous Com SAM-Binding Site	ents and Reauthorization Act ponents (Chemical Name) Probe ponents (Chemical Name)	t of 1986) Lists S. 302 (EHS)	S. 304 RQ No State Lists	No	



Revision: 05/12/2015 Supersedes Revision: 03/14/2012

	This CDC was prepared in accordance with 20 CED 4040 4200 and Deculation (EC)
Regulatory Information	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)
Statement:	No.1272/2008.
	Section 16. Other Information
Revision Date:	05/12/2015
Additional Information About	No data available.
This Product:	
	No data available. 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.



Revision: 05/12/2015 Supersedes Revision: 03/14/2012 according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008 Section 1. Identification of the Substance/Mixture and of the Company/Undertaking 1.1 **Product Code:** 600494 Product Name: SAM-Binding Site Positive Control 1.2 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. 1.3 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 number: **Emergency Contact:** CHEMTREC Within USA and Canada: +1 (800)424-9300 CHEMTREC Outside USA and Canada: +1 (703)527-3887 Section 2. Hazards Identification 2.1 **Classification of the Substance or Mixture:** 2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]: Acute Toxicity: Oral, Category 4 2.2 Label Elements: 2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]: **GHS Signal Word:** Warning **GHS Hazard Phrases:** H302: Harmful if swallowed. **GHS Precaution Phrases:** P264: Wash {hands} thoroughly after handling. **GHS Response Phrases:** P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330: Rinse mouth. **GHS Storage and Disposal Phrases:** Please refer to Section 7 for Storage and Section 13 for Disposal information. 2.3 Harmful if swallowed. Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract. Effects and Symptoms: May be harmful by inhalation or skin absorption. May cause eye, skin, or respiratory system irritation. To the best of our knowledge, the toxicological properties have not been thoroughly investigated.



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#	Hazardous Comp REACH Registrat	oonents (Chemical Name)/		EC No./			
	NEA011 Registrat	,	nical Name)/ Concentration		GHS Classification		
	SAM-Binding Site Po	ositive Control	100.0 %	NA NA	Acute Tox.(O) 4: H302		
•				•	•		
		Section 4. Fi	st Aid Measu	ires			
Descrip	tion of First Aid						
Measure	es:						
n Case	of Inhalation:			respiration or giv	e oxygen by trained personnel.		
n Case	of Skin Contact:	-					
n Case	of Eye Contact:			ater for at least 1	5 minutes. Have eyes examined		
n Case	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 Mea	asures			
Suitable	Extinguishing	Use alcohol-resistant foam, c	arbon dioxide, water	, or dry chemical	spray.		
Media:	lia: Use water spray to cool fire-exposed containers.						
Unsuita Media:	ble Extinguishing	A solid water stream may be	inefficient.				
		d No data available.					
Flash Pt	::	No data.					
Explosiv	ve Limits:	LEL: No data.	UEL: No da	ta.			
Autoign	ition Pt:	No data.					
Fire Figl	hting Instructions	-		-			
		Section 6. Acciden	tal Release N	leasures			
Protecti Emerge Environ Precauti Methods	ve Equipment and ncy Procedures: mental ions: s and Material For	d As conditions warrant, wear and appropriate personal pro Take steps to avoid release r Contain spill and collect, as a	a NIOSH approved s otection (rubber boot into the environment appropriate.	self-contained bre s, safety goggles , if safe to do so.	athing apparatus, or respirator, , and heavy rubber gloves).		
	Measure n Case n Cas	Insuitable Extinguishing Media: Flammable Properties an Hazards: Flash Pt: Explosive Limits: Autoignition Pt: Fire Fighting Instructions Protective Precautions, Protective Equipment and Emergency Procedures: Environmental Precautions: Methods and Material For Containment and Cleanin	Description of First Aid Measures: In Case of Inhalation: Remove to fresh air. If not breact immediate medical attent In Case of Skin Contact: Immediately wash skin with second in Case of Eye Contact: Hold eyelids apart and flush era and tested by medical person In Case of Ingestion: Wash out mouth with water provide a person. Get medical person on Case of Ingestion: In Case of Ingestion: Wash out mouth with water provide a person. Get medical person on Case of Ingestion: In Case of Ingestion: Use alcohol-resistant foam, or unconscious person. Get medical personnel. Section 5. Fire Use water spray to cool fire-era unconscious person det medical: Inammable Extinguishing Use water spray to cool fire-era unconscious person. Get medical: Itammable Properties andNo data available. Itazards: Flash Pt: No data. Explosive Limits: LEL: No data. Itre Fighting Instructions: As in any fire, wear self-contare equivalent), and full protective Protective Precautions, Avoid raising and breathing of the personal protective and appropriate personal protective Equipment and As conditions warrant, wear and appropriate personal protective invironmental Take steps to avoid release invironmental Take steps to avoid release invironmental Protections: Media Steps for a chemical wa	Description of First Aid Measures: n Case of Inhalation: Remove to fresh air. If not breathing, give artificial Get immediate medical attention. n Case of Skin Contact: Immediately wash skin with soap and plenty of wa clothing. Get medical attention if symptoms occur. n Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of wa and tested by medical personnel. n Case of Ingestion: Wash out mouth with water provided person is counconscious person. Get medical attention. Do No medical personnel. Section 5. Fire Fighting Measures Use alcohol-resistant foam, carbon dioxide, water Use water spray to cool fire-exposed containers. Insuitable Extinguishing A solid water stream may be inefficient. Media: Use alcohol-resistant foam, carbon dioxide, water Use water spray to cool fire-exposed containers. Insuitable Extinguishing A solid water stream may be inefficient. Media: No data. Explosive Limits: LEL: No data. Lizer Fighting Instructions: As in any fire, wear self-contained breathing appa equivalent), and full protective gear to prevent con Section 6. Accidental Release M Protective Precautions, Avoid raising and breathing dust, and provide ad strengency Procedures: and appropriate personal protection (rubber boot Take steps to avoid release into the environment Take steps to avoid release into the environment Precautions: <t< td=""><td>Section 4. First Aid Measures Section 4. First Aid Measures bescription of First Aid Measures: n Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give Get immediate medical attention. n Case of Skin Contact: Immediate medical attention if symptoms occur. Wash clothing be to clothing. Get medical attention if symptoms occur. Wash clothing be n Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 and tested by medical personnel. n Case of Ingestion: Wash out mouth with water provided person is conscious. Never gi unconscious person. Get medical attention. Do NOT induce vomitin medical personnel. Section 5. Fire Fighting Measures Buitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical Use water spray to cool fire-exposed containers. Insuitable Extinguishing A solid water stream may be inefficient. Ideia: Use alcohol-resistant foam, carbon dioxide, water, or dry chemical Use water spray to cool fire-exposed containers. Insuitable Extinguishing A solid water stream may be inefficient. Ideia: Use alcohol-resistant foam, carbon dioxide, water, or dry chemical Use water spray to cool fire-exposed containers. Insuitable Extinguishing A solid water stream may be inefficien</td></t<>	Section 4. First Aid Measures Section 4. First Aid Measures bescription of First Aid Measures: n Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give Get immediate medical attention. n Case of Skin Contact: Immediate medical attention if symptoms occur. Wash clothing be to clothing. Get medical attention if symptoms occur. Wash clothing be n Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 and tested by medical personnel. n Case of Ingestion: Wash out mouth with water provided person is conscious. Never gi unconscious person. Get medical attention. Do NOT induce vomitin medical personnel. Section 5. Fire Fighting Measures Buitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical Use water spray to cool fire-exposed containers. Insuitable Extinguishing A solid water stream may be inefficient. Ideia: Use alcohol-resistant foam, carbon dioxide, water, or dry chemical Use water spray to cool fire-exposed containers. Insuitable Extinguishing A solid water stream may be inefficient. Ideia: Use alcohol-resistant foam, carbon dioxide, water, or dry chemical Use water spray to cool fire-exposed containers. Insuitable Extinguishing A solid water stream may be inefficien		



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				7. Handling and	•				
7.1	Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray.								
	in Handling:Avoid prolonged or repeated exposure.Precautions To Be TakenKeep container tightly closed.								
7.2			-	ary closed. e with information listed o	on the product insert				
	in Storir	ig: 3101			on the product insert.				
		Section	8. Expos	ure Controls/Pe	rsonal Protection				
8.1	Exposur	e Parameters:							
CAS	#	Partial Chemical Nam	9	Britain EH40	France VL	Europe			
	NA	SAM-Binding Site Posit	ive Control	No data.	No data.	No data.			
CAS	#	Partial Chemical Nam	e	OSHA TWA	ACGIH TWA	Other Limits			
	NA	SAM-Binding Site Posit	ive Control	No data.	No data.	No data.			
8.2	Exposur	e Controls:		4	•	ļ			
8.2.1	Enginee	ring Controls Use	process enclos	sures, local exhaust vent	ilation, or other engineering co	ontrols to control airbo			
	(Ventilat	tion etc.): leve	s below recom	mended exposure limits.					
3.2.2	Persona	al protection equipmer	t:						
	Eye Pro	tection: Safe	ety glasses						
	Protecti	ve Gloves: Con	patible chemic	al-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 Pract		-	utilizing this material sho	ould be equipped with an eyev	vash facility and a safe			
		show							
			h thoroughly af	ter handling.					
		NO	lata available.						
		Secti	on 9. Phy	veical and Cham	ical Properties				
	Informat								
ə.1	mormat	ion on Basic Physical	and Chemical						
9.1		ion on Basic Physical I States:			·				
9.1	Physica Appeara	I States: Ince and Odor:	[] Gas A white lyop	Properties	·				
9.1	Physica Appeara Melting	l States: ince and Odor: Point:	[] Gas A white lyop No data.	Properties [] Liquid [X] Solid	·				
9.1	Physica Appeara Melting Boiling	I States: ince and Odor: Point: Point:	[] Gas A white lyop No data. No data.	Properties [] Liquid [X] Solid	·				
9.1	Physica Appeara Melting Boiling I Flash Pt	l States: ince and Odor: Point: Point:	[] Gas A white lyop No data. No data. No data.	Properties [] Liquid [X] Solid	·				
9.1	Physica Appeara Melting Boiling Flash Pt Evapora	I States: ince and Odor: Point: Point: :: ition Rate:	[] Gas A white lyop No data. No data. No data. No data.	Properties [] Liquid [X] Solid bhilized powder	·				
9.1	Physica Appeara Melting Boiling Flash Pt Evapora Flamma	l States: ince and Odor: Point: Point: :: ition Rate: bility (solid, gas):	[] Gas A white lyop No data. No data. No data. No data. No data ava	Properties [] Liquid [X] Solid bhilized powder ilable.					
9.1	Physica Appeara Melting Boiling Flash Pt Evapora Flamma Explosiv	I States: Ince and Odor: Point: Point: tion Rate: bility (solid, gas): ve Limits:	[] Gas A white lyop No data. No data. No data. No data. No data ava LEL: No da	Properties [] Liquid [X] Solid bhilized powder ilable.	·				
9.1	Physica Appeara Melting Boiling Flash Pt Evapora Flamma Explosiv Vapor P	l States: ince and Odor: Point: Point: :: ition Rate: bility (solid, gas):	[] Gas A white lyop No data. No data. No data. No data. No data ava LEL: No da	Properties [] Liquid [X] Solid bhilized powder ilable.					
9.1	Physica Appeara Melting Boiling I Flash Pt Evapora Flamma Explosiv Vapor P Hg):	I States: ince and Odor: Point: Point: :: ition Rate: bility (solid, gas): ve Limits: ressure (vs. Air or mm	[] Gas A white lyop No data. No data. No data. No data ava LEL: No da No data.	Properties [] Liquid [X] Solid bhilized powder ilable.					
9.1	Physica Appeara Melting Boiling Flash Pt Evapora Flamma Explosiv Vapor P Hg): Vapor D	I States: ince and Odor: Point: Point: :: ition Rate: bility (solid, gas): ve Limits: ressure (vs. Air or mm ensity (vs. Air = 1):	[] Gas A white lyop No data. No data. No data. No data ava LEL: No da No data.	Properties [] Liquid [X] Solid bhilized powder ilable.					
9.1	Physica Appeara Melting Boiling I Flash Pt Evapora Flamma Explosiv Vapor P Hg): Vapor D Specific	I States: ince and Odor: Point: Point: :: ition Rate: bility (solid, gas): ve Limits: ressure (vs. Air or mm	[] Gas A white lyop No data. No data. No data. No data ava LEL: No da No data.	Properties [] Liquid [X] Solid bhilized powder ilable.					



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	Autoigni	tion Pt:	No data.				
9.2	Other Inf	ormation					
	Percent	Volatile:	No data.				
			Section 10. Stability a	and Reactiv	/ity		
10.1	Reactivit	ty:	No data available.				
10.2	-						
10.3	Stability	Note(s):	Stable if stored in accordance with int	formation listed o	on the product	insert.	
	Polymer	ization:	Will occur [] Will not occur [X]				
10.4	Conditio	ns To Avoid:	No data available.				
10.5			strong oxidizing agents				
	To Avoid						
10.6	Hazardo		carbon dioxide				
	=	osition or	carbon monoxide				
	Byprodu	icts:	nitrogen oxides				
			Section 11. Toxicologi	cal Informa	ition		
11.1	Informat	ion on	The toxicological effects of this produ	ct have not been	thoroughly st	udied.	
	Toxicolo	gical Effects:					
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA
	NA	SAM-Binding Site	Positive Control	n.a.	n.a.	n.a.	n.a.
		•	Section 12. Ecologica	al Informati	on		
12.1	Toxicity		Avoid release into the environment.				
	2		Runoff from fire control or dilution wa	ter may cause po	ollution.		
12.2	Persiste	nce and	No data available.				
	Degrada	bility:					
12.3	Bioaccu	mulative	No data available.				
	Potentia	l:					
12.4	Mobility	in Soil:	No data available.				
12.5	Results	of PBT and vPvB	No data available.				
	assessm	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, sta	te, and federal re	gulations.		
			Section 14. Transpo	rt Informati	on		
14.1	LAND T	RANSPORT (US I	DOT):				
D	OT Prope	r Shipping Name:	Not dangerous goods.				
D	OT Hazaro	d Class:					
υ	N/NA Nun	nber:					
14.1	LAND T	RANSPORT (Euro	opean ADR/RID):				
A	DR/RID SI	hipping Name:	Not dangerous goods.				
υ	N Number						
н	azard Cla	ss:					
						_	
I						N	Iulti-region format



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14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:

Not dangerous goods.

Additional Transport Information:

Section 15. Regulatory Information

Transport in accordance with local, state, and federal regulations.

CAS # Hazardous Components (Chemical Name)			S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)			
NA	SAM-Binding Site	e Positive Control	No	No	No			
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or	State Lists	•			
NA	SAM-Binding Site	Positive Control	CAA HAP,ODC: N PROP.65: No	o; CWA NPDES: N	lo; TSCA: No; CA			
Regulatory Ir	nformation	This SDS was prepared in acco	rdance with 29 CFR	1910.1200 and Reg	ulation (EC)			
Statement:		No.1272/2008.	No.1272/2008.					
		Section 16. Oth	ner Informatio	n				
Revision Date	e:	05/12/2015						
Additional In	formation About	No data available.						
This Product	:							
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.						



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		accord	ling to Regulation (EC) No. 190	07/2006 as amended by	y (EC) No. 1272/200)8			
		Section 1. Ide	entification of the Substar	nce/Mixture and of	the Company/U	ndertaking			
1.1	Product	Code:	600572						
	Product	Name:	GLP (human recombinar	nt) Assay Enzyme					
1.2	Relevar	it identified uses of t	he substance or mixture a	and uses advised a	gainst:				
	Releva	ant identified uses:	For research use only, n	ot for human or vete	rinary use.				
1.3	Details	of the Supplier of the	Safety Data Sheet:						
	Comp	any Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd.	bany					
	Web s	ite address:	Ann Arbor, MI 48108 www.caymanchem.com						
		nation:	Cayman Chemical Com	any	+1 (73	4)971-3335			
1.4		ncy telephone numb		July		1/07 1 0000			
	-	gency Contact:	CHEMTREC Within USA CHEMTREC Outside US			0)424-9300 3)527-3887			
			Section 2. Ha	zards Identifi	cation				
2.1	Classifi	cation of the Substa	nce or Mixture:						
2.1.1	Classif	ication according to	Regulation (EC) No 1272/	2008 [CLP]:					
2.2		lements:							
2.2.1	Labelin	g according to Regu	lation (EC) No 1272/2008	[CLP]:					
	GHS S	GHS Signal Word: None							
	GHS I	Hazard Phrases:							
	Based	l on evaluation of curre	ently available data this sub	stance or mixture is	not classifiable ac	cording to GHS.			
	GHS I	Precaution Phrases:							
	No ph	rases apply.							
		Response Phrases:							
	-	rases apply.							
		Storage and Disposa							
			Storage and Section 13 for	•					
2.3			laterial may be irritating to t lay be harmful by inhalatior			spiratory tract.			
	Ellecis		lay cause eye, skin, or resp	-	-				
						been thoroughly investigated.			
		Sectio	n 3. Composition	/Information	on Ingredie	nts			
CAS	#/	Hazardous Compor	nents (Chemical Name)/	Concentration	EC No./	GHS Classification			
RTE	CS #	REACH Registratio	n No.		EC Index No.				
	3-81-5 050000	Glycerol		10.0 %	200-289-5 NA	Skin Corr. 3: H316 Eye Damage 2B: H320			
	33-12-3 10000	DL-Dithiothreitol		0.01 %	222-468-7 NA	Acute Tox.(O) 4: H302 Skin Corr. 2: H315 Eye Damage 2A: H319 STOT (SE) 3: H335 H336			
NA NA		G9a-like protein (huma	n recombinant)	0.24 %	NA NA	No data available.			



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1		1		1	1	1		
-	7-14-5 25000	Sodium chloride		0.88 %	231-598-3 NA	Eye Damage 2A: H319 STOT (SE) 3: H335 H336		
	7-86-1 00000	Trizma base		0.61 %	201-064-4 NA	Skin Corr. 2: H315 Eye Damage 2: H319 STOT (SE) 3: H335		
	2-18-5 10000	Water		88.26 %	231-791-2 NA	No data available.		
		4		ł				
			Section	1. First Aid Me	0011700			
	Deser		Section		asules			
4.1	Measu	ption of First Aid						
		e of Inhalation:			tificial respiration or g	give oxygen by trained personnel.		
	In Cas	e of Skin Contact:	Get immediate medica Immediately wash ski		of water for at least	15 minutes. Remove contaminated		
			-	attention if symptoms of	-			
	In Cas	e of Eye Contact:			of water for at least	15 minutes. Have eyes examined		
	In Cas	e of Ingestion:	and tested by medical Wash out mouth with	-	is conscious. Never	give anything by mouth to an		
	in ouo	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	Measures			
5.1	Suitab	le Extinguishing	shing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.					
	Media							
	Unsuit Media:	-	g A solid water stream	may be inefficient.				
5.2	Flamm Hazaro	-	ndEmits toxic fumes und	der fire conditions.				
	Flash	Pt:	No data.					
	Explos	sive Limits:	LEL: No data.	UEL: No data.				
	-	nition Pt:	No data.					
5.3	Fire Fi	ghting Instruction	-	elf-contained breathing rotective gear to preve		demand (NIOSH approved or and eyes.		
			Section 6. Ac	cidental Releas	se Measures			
6.1	Protec	tive Precautions,	Avoid breathing vapo	ors and provide adequa	te ventilation.			
						reathing apparatus, or respirator,		
	-	ency Procedures:				es, and heavy rubber gloves).		
6.2		onmental utions:	lake steps to avoid r	elease into the environ	ment, if safe to do se	0.		
6.3			r Contain spill and coll	ect, as appropriate.				
					lisposal in accordanc	ce with local regulations.		
	Up:							



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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.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

CAS #	Partial Chemical Name	Britain EH40	France VL	Europe
56-81-5	Glycerol	TWA: 10 mg/m3 () STEL: ()	TWA: 10 mg/m3	No data.
3483-12-3	DL-Dithiothreitol	No data.	No data.	No data.
NA	G9a-like protein (human recombinant)	No data.	No data.	No data.
7647-14-5	Sodium chloride	No data.	No data.	No data.
77-86-1	Trizma base	No data.	No data.	No data.
7732-18-5	Water	No data.	No data.	No data.
CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
56-81-5	Glycerol	PEL: 15 (dust); 5 (resp.) mg/m3	TLV: 10 mg/m3	No data.
3483-12-3	DL-Dithiothreitol	No data.	No data.	No data.
NA	G9a-like protein (human recombinant)	No data.	No data.	No data.
7647-14-5	Sodium chloride	No data.	No data.	No data.
77-86-1	Trizma base	No data.	No data.	No data.
11-00-1				

8.2 Exposure Controls:

8.2.1 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

8.2.2 Personal protection equipment:

Eye Protection: Safety glasses

Protective Gloves: 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 shower.

 Wash thoroughly after handling.
 No data available.



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.1	Informat	ion on Basic Ph	ysical an	d Chemic	al Properti	ies					
9.1	Physical States: []Gas [X]Liquid						olid				
	-	ance and Odor:		Solution							
	pH:			8.0							
	Melting	Point:		No data.							
	Boiling	Point:		No data.							
	Flash Pt	:		No data.							
	Evapora	tion Rate:		No data.							
	Flamma	bility (solid, gas):	No data a	available.						
	Explosiv	ve Limits:		LEL: No	data.		UEL: No	o data.			
	Vapor P	ressure (vs. Air	or mm	No data.							
	Hg):										
	Vapor D	ensity (vs. Air =	1):	No data.							
	-	Gravity (Water	= 1):	No data.							
	Solubilit	ty in Water:		No data.							
	Autoign	ition Pt:		No data.							
9.2	Other Inf	ormation									
	Percent	Volatile:		No data.							
			S	ection	10 Sta	bility and	Reacti	vitv			
10.4	Desetivi	4. <i>r</i> .						vity			
10.1 10.2	Reactivi Stability	-		a availabl		1					
10.2	-			if stored i	Stable [X	-	ation listed	on the product	incort		
10.5					table if stored in accordance with information listed on the product insert. /ill occur [] Will not occur [X]						
	-										
10.4		ons To Avoid:		a availabl	e.						
10.5	To Avoi	atibility - Materia	-		agente						
10 6			-	trong oxidizing agents arbon dioxide							
10.6	Hazardo	oosition or		arbon dioxide arbon monoxide							
	Byprodu		carbon								
	Byprout										
			Se	ction 1	1. Toxi	cological	I Informa	ation			
11.1	Informat	tion on		-		-		n thoroughly s			
	Toxicolo	ogical Effects:	Glycer	Glycerol - Irritation Data: Eyes (rabbit): 500 mg (24h) mild; Skin (rabbit): 500 mg (24h) mild;							
	Chronic	Toxicological	•	Glycerol - Investigated as a mutagen, reproductive effector, and tumorigen.							
	Effects:	Effects: Only			Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.						
				-		for complete i	information.				
			-		8 Number: M						
Carci	nogenicity	y:	NTP?	No IA	ARC Monog	raphs? No	OSHA R	egulated? No			
CAS	#	Hazardous Cor	mponent	s (Chemi	cal Name)		NTP	IARC	ACGIH	OSHA	
56	6-81-5	Glycerol					n.a.	n.a.	n.a.	n.a.	
348	33-12-3	DL-Dithiothreito	I				n.a.	n.a.	n.a.	n.a.	
	NA	G9a-like protein	ı (human	recombina	ant)		n.a.	n.a.	n.a.	n.a.	
		-	-				n.a.	n.a.	n.a.	n.a.	
764		-14-5 Sodium chloride					1	1	1		



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773	2-18-5	Water		n.a.		n.a.	n.a.	n.a.				
			Section 12. Ecol	ogical Inform	atio	n						
12.1	Toxicity	/:	Avoid release into the environr									
		Runoff from fire control or dilution water may cause pollution.										
12.2	Persistence and No data available.											
	Degrad	ability:										
12.3	Bioaccu	umulative No data available.										
	Potentia											
12.4	-	/ in Soil:										
12.5	Results		No data available.									
12.6		dverse effects:	No data available.									
				cal Canaidar	otio	00						
13.1	Wasto [Disposal Mathod:	Section 13. Dispo Dispose in accordance with loc									
	Waster		-									
			Section 14. Trar	isport inform	atio	n						
14.1		FRANSPORT (US I	-									
		er Shipping Name:	Not dangerous goods.									
	OT Hazaı N/NA Nu											
14.1		TRANSPORT (Euro	nean ADP/PID).									
		Shipping Name:	Not dangerous goods.									
	N Numbe		Not dangerede geede.									
H	azard Cla	ass:										
14.3	AIR TR	ANSPORT (ICAO/	ATA):									
<u>і</u> іс	CAO/IATA	A Shipping Name:	Not dangerous goods.									
Addit	ional Tra	nsport	Transport in accordance with I	ocal, state, and fed	eral re	gulations.						
Inform	mation:											
			Section 15. Regu	latory Inform	natio	n						
EPA S	SARA (Si	uperfund Amendm	ents and Reauthorization Act	of 1986) Lists								
CAS	#	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S	. 304 RQ	S. 313	(TRI)				
56	-81-5	Glycerol		No	N	0	No					
348	3-12-3	DL-Dithiothreitol		No	N	0	No					
	NA	G9a-like protein (human recombinant)	No	N	0	No					
764	7-14-5	Sodium chloride		No	N	0	No					
77	-86-1	Trizma base		No	N	0	Yes-Cat	t. N106				
773	2-18-5	Water		No	N	0	No					
CAS	#	Hazardous Com	ponents (Chemical Name)	Other US EPA	or Stat	te Lists						
56	-81-5	Glycerol		CAA HAP,ODC Inventory; CA I			: No; TSCA: `	Yes -				
348	3-12-3	DL-Dithiothreitol		CAA HAP,ODC Inventory; CA I			: No; TSCA: `	Yes -				
	NA	G9a-like protein (human recombinant)	CAA HAP,ODC PROP.65: No	: No;	CWA NPDES	: No; TSCA:	No; CA				
							M	ulti-region forma				



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7647-14-5 Sodium chloride		CAA HAP,ODC: No; CWA NPD Inventory; CA PROP.65: No	ES: No; TSCA: Yes -			
77-86-1	Trizma base	CAA HAP,ODC: HAP; CWA NPI Inventory; CA PROP.65: No	DES: No; TSCA: Yes -			
7732-18-5	Water	CAA HAP,ODC: No; CWA NPDI Inventory; CA PROP.65: No	ES: No; TSCA: Yes -			
Regulatory Inf Statement:	ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.				
		Section 16. Other Information				
Revision Date:		05/13/2015				
Additional Info This Product:	rmation About	No data available.				
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