

Page: 1 of 5

		Section 1. Ide	entification of the Substar	nce/Mixture and of	f the Company/U	Indertaking			
.1	Produc	t Code:	601741			-			
	Produc	t Name:	Thioglycollate Broth Solu	ution					
.2	Releva	nt identified uses of t	he substance or mixture a	and uses advised a	against:				
		ant identified uses:	For research use only, n		-				
.3	Details	of the Supplier of the	e Safety Data Sheet:						
		bany Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	bany					
	Webs	site address:	www.caymanchem.com						
	Inform	mation:	Cayman Chemical Comp	bany	+1 (73	4)971-3335			
.4	Emerge	ency telephone numb	er:						
	Emer	gency Contact:	CHEMTREC Within USA		-	00)424-9300			
			CHEMTREC Outside US	SA and Canada:	+1 (70	03)527-3887			
			Section 2. Ha	zards Identifi	ication				
2.1	Classif	ication of the Substa	nce or Mixture:						
2.2	Label E	Elements:							
	GHS	Signal Word: Hazard Phrases:	None			т. к. оно			
			ently available data this sub	stance or mixture is	s not classifiable a	ccording to GHS.			
		Precaution Phrases:							
		No phrases apply.							
		Response Phrases: nrases apply.							
	-	Storage and Disposa	l Phrases:						
			Storage and Section 13 for	r Disposal informatio	on.				
2.3		s and Symptoms: M M	Aaterial may be irritating to t Aay be harmful by inhalatior Aay cause eye, skin, or resp to the best of our knowledge	n, ingestion, or skin a biratory system irrita	absorption. tion.	spiratory tract. t been thoroughly investigated			
		Sectio	on 3. Composition	n/Information	on Ingredie	nts			
CAS		Hazardous Compor REACH Registratio	nents (Chemical Name)/ n No.	Concentration	EC No./ EC Index No.	GHS Classification			
RTE									
RTEC NA NA		Fluid Thiogylcollate Me	dium	3.0 %	NA NA	No data available.			



Revision: 08/19/2018

		Section 4. First Aid Measures
4.1	Description of First Aid	
	Measures:	
	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:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated 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 personnel.
	In 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 Measures
5.1	Suitable Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
	Media:	Use water spray to cool fire-exposed containers.
	Unsuitable Extinguishing Media:	g A solid water stream may be inefficient.
5.2	Flammable Properties an Hazards:	I d No data available.
		No data available.
	Flash Pt:	No data.
	Explosive Limits:	LEL: No data. UEL: No data.
	Autoignition Pt:	No data.
5.3	Fire Fighting Instructions	s: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.
		Section 6. Accidental Release Measures
6.1	Protective Precautions,	Avoid breathing vapors and provide adequate ventilation.
	Protective Equipment an	d 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 Precautions:	Take steps to avoid release into the environment, if safe to do so.
6.3		r Contain spill and collect, as appropriate.
	Containment and Cleanir	ngTransfer to a chemical waste container for disposal in accordance with local regulations.
	Up:	
		Section 7. Handling and Storage
7.1	Precautions To Be Taker	Avoid breathing dust/fume/gas/mist/vapours/spray.
	in Handling:	Avoid prolonged or repeated exposure.
7.2	Precautions To Be Taker	Neep container tightly closed.
	in Storing:	Store in accordance with information listed on the product insert.
	Sec	tion 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	



8.2	Exposure Controls:							
8.2.1	(Ventilation etc.): 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.							
		Facilities storing or utilizing this material should be equipped with an eyewash and a safety showe						
		Wash thoroughly after handling.						
		No data available.						
	Se	ection 9. Physical and Chemical Properties						
9.1	Information on Basic Phys	ical and Chemical Properties						
	Physical States:	[]Gas [X]Liquid []Solid						
	Appearance and Odor:	A liquid						
	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.						
	Specific Gravity (Water = 1	1): No data.						
	Solubility in Water:	No data.						
	Octanol/Water Partition	No data.						
	Coefficient:							
	Autoignition Pt:	No data.						
	Decomposition Temperatu	ure: No data.						
	Viscosity:	No data.						
9.2	Other Information							
	Percent Volatile:	No data.						
		Section 10. Stability and Reactivity						
10.1	Reactivity:	No data available.						
10.2	-	Unstable [] Stable [X]						
10.3		Stable if stored in accordance with information listed on the product insert.						
	Polymerization:	Will occur [] Will not occur [X]						
10.4	Conditions To Avoid:	No data available.						
10.5	Incompatibility - Materials	No data available.						
	To Avoid:							
	To Avoid.							



	Decom Byprod	position or					
	Бургоа		Section 11. Toxico	logical Inf	ormation		
11.1 Carci	•						
CAS		-	ponents (Chemical Name)		-		OSHA
	NA NA	Fluid Thiogylcolla	· · · ·			n.a.	n.a.
773	32-18-5	Water		n.a		n.a.	n.a.
		1	Section 12. Ecolo	ngical Info	mation	Į	
12.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 12.2 Persistence and No data available.							
12.3	Degrada Bioaccu Potentia	umulative	No data available.				
12.4 12.5	-	/ in Soil: of PBT and vPvB	No data available. No data available.				
12.6	assessi Other a	ment: dverse effects:	No data available.				
			Section 13. Dispos	sal Consid	erations		
13.1	Waste I	Disposal Method:	Dispose in accordance with loca	al, state, and fe	deral regulations.		
			Section 14. Tran	sport Info	rmation		
14.1	LAND 1	FRANSPORT (US	DOT):				
0)OT Prope)OT Hazaı JN/NA Nu		Not dangerous goods.				
14.1	LAND	FRANSPORT (Eur	opean ADR/RID):				
ι	ADR/RID S JN Numbe lazard Cla		Not dangerous goods.				
14.3	AIR TR	ANSPORT (ICAO/	IATA):				
I	CAO/IATA	A Shipping Name:	Not dangerous goods.				
	tional Tra	nsport	Transport in accordance with lo	ocal, state, and	federal regulations.		
Infor	mation:						
			Section 15. Regu	latory Info	rmation		
	-	1	nents and Reauthorization Act	-		I	
CAS			ponents (Chemical Name)	S. 302 (EHS			3 (TRI)
	NA	Fluid Thiogylcolla	ate Medium	No	No	No	
773	32-18-5	Water		No	No	No	



CAS # Hazardous Com		ponents (Chemical Name)	Other US EPA or State Lists		
NA Fluid Thiogylcolla		ate Medium	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No		
7732-18-5	Water		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No		
Regulatory Information Statement:		This SDS was prepared in accor No.1272/2008.	rdance with 29 CFR 1910.1200 and Regulation (EC)		
		Section 16. Oth	er Information		
Revision Date	:	08/19/2018			
Additional Info	ormation About	No data available.			
This Product:					
Company Policy or Disclaimer:		currently available to us. However express or implied, with respect	is believed to be accurate and represents the best information er, we make no warranty of merchantability or any other warranty, to such information, and we assume no liability resulting from its wn investigations to determine the suitability of the information for		



		, , , , , , , , , , , , , , , , , , ,	Regulation (EC) No. 1907/2006 as	<u> </u>					
		Section 1. Ide	entification of the Substa	nce/iviixture and o	Tithe Company/U	ndertaking			
.1	Product Product	t Code: t Name:	601742 Anti-CD11b PE Test rea	igent					
.2	Relevar	nt identified uses of t	he substance or mixture	and uses advised	against:				
	Releva	ant identified uses:	For research use only, r	ot for human or vet	erinary use.				
.3	Details	of the Supplier of the	Safety Data Sheet:						
	Comp	any Name:	Cayman Chemical Com 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	pany					
	Web s	ite address:	www.caymanchem.com						
	Inform	nation:	Cayman Chemical Com	pany	+1 (73	4)971-3335			
.4	Emerge	ency telephone numb	er:						
	Emerç	gency Contact:	CHEMTREC Within US/ CHEMTREC Outside US			0)424-9300 3)527-3887			
			Section 2. Ha	zards Identif	ication				
2.1	Classifi	cation of the Substar	nce or Mixture:						
2.2	Label E	lements:							
	GHS S	Signal Word:	None						
		S Hazard Phrases:							
	Based	ed on evaluation of currently available data this substance or mixture is not classifiable according to GHS.							
	GHS I	S Precaution Phrases:							
	No ph	o phrases apply.							
	GHS I	S Response Phrases:							
	No ph	phrases apply.							
	GHS S	Storage and Disposa	Phrases:						
			Storage and Section 13 fo						
2.3			laterial may be irritating to			spiratory tract.			
	Effects		lay be harmful by inhalation		•				
			lay cause eye, skin, or resp a the best of our knowledge			haan tharay abby investigate			
						been thoroughly investigate			
		Sectio	n 3. Compositior	n/Information	on Ingredie	nts			
CAS RTEC	#/ CS#	Hazardous Compor REACH Registratio	ents (Chemical Name)/ n No.	Concentration	EC No./ EC Index No.	GHS Classification			
٨٨		Rat anti-CD11b Antiboo	ly - PE	< 0.001 %	NA NA	No data available.			
	7-14-5	Sodium chloride 01-2119485491-33		0.8 %	231-598-3 NA	No GHS classifications app			
NA 764	25000								
NA 764 ⁻ VZ472 744 ⁻	25000 7-40-7 50000	Potassium chloride 01-2119539416-36		0.02 %	231-211-8 NA	No GHS classifications app			
NA 764 /Z472 744 TS805 7555	7-40-7	Potassium chloride	asic	0.02 %	231-211-8	No GHS classifications app Eye Damage 2: H319			
NA 764 VZ472 744 FS805 7555 WC45 7775	7-40-7 50000 8-79-4	Potassium chloride 01-2119539416-36 Sodium phosphate, Dib			231-211-8 NA 231-448-7 NA 231-913-4				
NA 764 VZ472 744 TS809 7555 WC45 7775 TC66	7-40-7 50000 8-79-4 500000 8-77-0	Potassium chloride 01-2119539416-36 Sodium phosphate, Dib 01-2119489797-11 Potassium phosphate, I		0.14 %	231-211-8 NA 231-448-7 NA	Eye Damage 2: H319			



Revision: 08/19/2018

						Aquatic (C) 1: H410		
9048-46-8 Bovine Serum Albur MT6446000		Bovine Serum Albun	nin (BSA)	1.0 %	232-936-2 NA	Acute Tox.(O) 4: H302		
7732-18-5 Water ZC0110000 na				97.915 %	231-791-2 NA	No GHS classifications apply.		
			Section 4.	First Aid Me	asures	·		
4.1	Descrip	tion of First Aid						
	Measure	es:						
	In Case	of Inhalation:	Remove to fresh air. If not Get immediate medical atte		tificial respiration or (give oxygen by trained personnel.		
	In Case	of Skin Contact:	Immediately wash skin with clothing. Get medical atten			15 minutes. Remove contaminated before reuse.		
	In Case	of Eye Contact:	Hold eyelids apart and flus and tested by medical pers		of water for at least	15 minutes. Have eyes examined		
	In Case	of Ingestion:	Wash out mouth with wate	r provided person	is conscious. Never	give anything by mouth to an		
			-	nedical attention.	Do NOT induce vom	iting unless directed to do so by		
			medical personnel.					
			Section 5. Fir	re Fighting N	Measures			
5.1	Suitable	e Extinguishing	Use alcohol-resistant foam	n, carbon dioxide,	water, or dry chemic	al spray.		
	Media:		Use water spray to cool fire	e-exposed contair	ners.			
		ble Extinguishing	A solid water stream may I	be inefficient.				
	Media:							
5.2		-	d No data available.					
	Hazards	5:	No data available.					
	Flash Pt		No data avaliable.					
		ve Limits:	LEL: No data. UEL: No data.					
	Autoign		No data.					
5.3	-			ontained breathing	apparatus pressure	-demand (NIOSH approved or		
0.0	The rig		equivalent), and full protec	-				
			Section 6. Accide	ental Releas	se Measures			
6.1	Protecti	ve Precautions,	Avoid breathing vapors ar	nd provide adequa	te ventilation.			
	Protecti	ve Equipment and	d As conditions warrant, we	ar a NIOSH appro	oved self-contained b	preathing apparatus, or respirator,		
	Emerge	ncy Procedures:	and appropriate personal	protection (rubber	boots, safety goggle	es, and heavy rubber gloves).		
6.2	Environ Precaut		Take steps to avoid releas	se into the environ	ment, if safe to do se	э.		
6.3	Methods	s and Material Fo	r Contain spill and collect, a	as appropriate.				
	Contain Up:	ment and Cleanin	ngTransfer to a chemical wa	ste container for c	lisposal in accordanc	ce with local regulations.		
			Section 7. Ha	andling and	Storage			
7.1	Precaut	ions To Be Taken	Avoid breathing dust/fume					
	in Hand		Avoid prolonged or repeate					
7.2		-	Keep container tightly clos	ed.				
	in Storir	ng:	Store in accordance with in	nformation listed o	on the product insert.			



3.1	Exposure Parameters:			
CAS	t Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations
26628	3-22-8 Sodium azide	ACGIH TLV	CEIL: 0.29 mg/m3	
		Europe	TWA: 0.1 mg/m3	Skin Absorpti
			STEL: 0.3 mg/m3	
		France VL	TWA: 0.1 mg/m3 STEL: 0.3 mg/m3	
		Britain EH40	TWA: 0.1 mg/m3 () STEL: 0.3 mg/m3 ()	Skin Absorpti
3.2	Exposure Controls:			I
3.2.1	Engineering Controls Use	process enclosures, local o	exhaust ventilation, or other engineering con	trols to control airbor
	(Ventilation etc.): level	s below recommended exp	oosure limits.	
.2.2	Personal protection equipmen	t:		
	Eye Protection: Safe	ty glasses		
	Protective Gloves: Com	patible chemical-resistant	gloves	
	Other Protective Clothing:Lab	coat		
	Respiratory Equipment NIOS	SH approved respirator, as	conditions warrant.	
	(Specify Type):			
	Work/Hygienic/Maintenan Do n	ot take internally.		
	ce Practices: Facil	lities storing or utilizing this	material should be equipped with an eyewa	sh and a safety show
	Was	h thoroughly after handling		
	No d	ata available.		
			d Chemical Properties	
).1		on 9. Physical ar	nd Chemical Properties	
0.1	Section	on 9. Physical ar	nd Chemical Properties	
.1	Section Information on Basic Physical a	on 9. Physical ar and Chemical Properties	·	
.1	Section Information on Basic Physical a Physical States:	On 9. Physical an and Chemical Properties []Gas [X]Liquid	·	
.1	Section Information on Basic Physical a Physical States: Appearance and Odor:	on 9. Physical an and Chemical Properties []Gas [X]Liquid A liquid	·	
.1	Section Information on Basic Physical a Physical States: Appearance and Odor: pH:	on 9. Physical an and Chemical Properties []Gas [X]Liquid A liquid 7.4	·	
.1	Section Information on Basic Physical a Physical States: Appearance and Odor: pH: Melting Point:	on 9. Physical an and Chemical Properties []Gas [X]Liquid A liquid 7.4 No data.	·	
.1	Section Information on Basic Physical a Physical States: Appearance and Odor: pH: Melting Point: Boiling Point:	on 9. Physical an and Chemical Properties []Gas [X]Liquid A liquid 7.4 No data. No data.	·	
.1	Section Information on Basic Physical a Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt:	on 9. Physical an and Chemical Properties []Gas [X]Liquid A liquid 7.4 No data. No data. No data.	·	
.1	Section Information on Basic Physical a Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate:	on 9. Physical an and Chemical Properties []Gas [X] Liquid A liquid 7.4 No data. No data. No data. No data. No data.	·	
.1	Section Information on Basic Physical a Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas):	on 9. Physical an and Chemical Properties []Gas [X]Liquid A liquid 7.4 No data. No data. No data. No data. No data. No data. No data. No data. No data. No data.	[] Solid	
.1	Section Information on Basic Physical a Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits:	on 9. Physical an and Chemical Properties []Gas [X]Liquid A liquid 7.4 No data. No data. No data. No data. No data. No data. No data. No data. No data. No data.	[] Solid	
.1	Section Information on Basic Physical a Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or mm	on 9. Physical an and Chemical Properties []Gas [X]Liquid A liquid 7.4 No data. No data. No data. No data. No data. No data. No data. No data. No data. No data.	[] Solid	
.1	Section Information on Basic Physical a Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or mm Hg):	on 9. Physical an and Chemical Properties []Gas [X]Liquid A liquid 7.4 No data. No data.	[] Solid	
.1	Section Information on Basic Physical a Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or mmm Hg): Vapor Density (vs. Air = 1):	on 9. Physical an and Chemical Properties []Gas [X]Liquid A liquid 7.4 No data. No data. No data. No data. No data. No data available. LEL: No data. No data. No data.	[] Solid	
.1	Section Information on Basic Physical a Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or mm Hg): Vapor Density (vs. Air = 1): Specific Gravity (Water = 1):	on 9. Physical an and Chemical Properties []Gas [X]Liquid A liquid 7.4 No data. No data.	[] Solid	



-									
	Autoign		No d	ata.					
	-	osition Tempera							
	Viscosit	-	No d	ata.					
9.2	Other Inf	ormation							
	Percent	Volatile:	No d	ata.					
			Secti	on 10. Stability an	d Reacti	vity			
10.1	Reactivi	ty:	No data ava	ilable.					
10.2	Stability	:	Unstable [] Stable [X]					
10.3	Stability	Note(s):	Stable if stor	red in accordance with inforr	nation listed	on the product	insert.		
	Polymer	ization:	Will occur [] Will not occur [X]					
10.4	Conditio	ons To Avoid:	No data ava	ilable.					
10.5	Incompa	atibility - Materia	Is No data ava	ilable.					
	To Avoi								
10.6	Hazardo		No data ava	ilable.					
	-	osition or							
	Byprodu	icts:							
			Sectio	n 11. Toxicologica	I Informa	ation			
11.1	Informat	tion on		gical effects of this product h		• •			
	Toxicolo	ogical Effects:		le - Toxicity Data: Oral LD50		-		ıg/kg;	
	.		Intraperitoneal LDLO (rat): 30 mg/kg; Subcutaneous LD50 (rat): 45100 ug/kg;						
		Toxicological	Sodium azide - Investigated as an agricultural chemical, drug, mutagen, reproductive effector, and						
	Effects:		tumorigen. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.						
			See actual entry in RTECS for complete information.						
				le RTECS Number: VY8050					
Carci	nogenicity	y :	NTP? No	IARC Monographs? No	OSHA R	egulated? No			
CAS	#	Hazardous Cor	nponents (Ch	emical Name)	NTP	IARC	ACGIH	OSHA	
	NA	Rat anti-CD11b	Antibody - PE		n.a.	n.a.	n.a.	n.a.	
764	7-14-5	Sodium chloride	;			n.a.	n.a.	n.a.	
744	7-40-7	Potassium chlor	ide	ide		n.a.	n.a.	n.a.	
755	8-79-4	Sodium phospha	ate, Dibasic		n.a.	n.a.	n.a.	n.a.	
777	78-77-0	Potassium phos	phate, Monoba	asic	n.a.	n.a.	n.a.	n.a.	
2662	28-22-8	Sodium azide			n.a.	n.a.	A4	n.a.	
904	8-46-8	Bovine Serum A	Ibumin (BSA)		n.a.	n.a.	n.a.	n.a.	
773	32-18-5	Water			n.a.	n.a.	n.a.	n.a.	
			Secti	on 12. Ecological	Informat	ion			
12.1	Toxicity	:	Avoid releas	e into the environment.					
			Runoff from	fire control or dilution water	may cause p	ollution.			
12.2	Persiste	nce and	No data ava	ilable.					
	Degrada	bility:							
12.3	Bioaccu	mulative	No data ava	ilable.					
	Potentia	ıl:							
12.4	Mobility	in Soil:	No data ava	ilable.					
12.5	Results	of PBT and vPvB	B No data ava	ilable.					
1									



assess	adverse effects: No data available.								
		ad Canaidara	tiono						
	Section 13. Disposal Considerations 3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.								
13.1 Waste									
	Section 14. Trar	nsport Informa	ation						
14.1 LAND	TRANSPORT (US DOT):								
DOT Prop	DOT Proper Shipping Name: Not dangerous goods.								
DOT Haza									
UN/NA Nu									
	TRANSPORT (European ADR/RID):								
	Shipping Name: Not dangerous goods.								
Hazard Cl									
14.3 AIR TF	ANSPORT (ICAO/IATA):								
	A Shipping Name: Not dangerous goods.								
Additional Tra	ansport Transport in accordance with I	ocal, state, and feder	al regulations.						
Information:									
	Section 15. Regu	latory Information	ation						
EPA SARA (S	uperfund Amendments and Reauthorization Act	of 1986) Lists							
CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)					
NA	Rat anti-CD11b Antibody - PE	No	No	No					
7647-14-5	Sodium chloride	No	No	No					
7447-40-7	Potassium chloride	No	No	No					
7558-79-4	Sodium phosphate, Dibasic	No	Yes 5000 LB	No					
7778-77-0	Potassium phosphate, Monobasic	No	No	No					
26628-22-8	Sodium azide	Yes 500 LB	Yes 1000 LB	Yes					
9048-46-8	Bovine Serum Albumin (BSA)	No	No	No					
7732-18-5	Water	No	No	No					
CAS #	Hazardous Components (Chemical Name)	Other US EPA or	State Lists						
NA	Rat anti-CD11b Antibody - PE	CAA HAP,ODC: PROP.65: No	No; CWA NPDES: N	No; TSCA: No; CA					
7647-14-5	Sodium chloride	CAA HAP,ODC: Inventory; CA PI	No; CWA NPDES: N ROP.65: No	No; TSCA: Yes -					
7447-40-7	Potassium chloride	CAA HAP,ODC: Inventory; CA PI	No; CWA NPDES: N ROP.65: No	No; TSCA: Yes -					
7558-79-4	Sodium phosphate, Dibasic	CAA HAP,ODC: Inventory; CA PI	No; CWA NPDES: N ROP.65: No	No; TSCA: Yes -					
7778-77-0	Potassium phosphate, Monobasic	CAA HAP,ODC: Inventory; CA PI	No; CWA NPDES: N ROP.65: No	No; TSCA: Yes -					
26628-22-8	Sodium azide	CAA HAP,ODC: Inventory; CA PI	No; CWA NPDES: N ROP.65: No	No; TSCA: Yes -					
9048-46-8	Bovine Serum Albumin (BSA)	CAA HAP,ODC: Inventory; CA PI	No; CWA NPDES: N ROP.65: No	No; TSCA: Yes -					
7732-18-5	Water	CAA HAP,ODC:	No; CWA NPDES: N						
				Multi-region forma					



Revision: 08/19/2018

Page: 6 of 6

	Inventory; CA PROP.65: NO						
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:	08/19/2018						
Additional Information About This Product:	No data available.						
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.						



	according to	Regulation (EC) No. 1907/2006 as	amended by (EC) No. 2015	i/830 and US OSHA HCS	5 2015		
	Section 1. Ide	ntification of the Substa	nce/Mixture and of	f the Company/U	ndertaking		
	duct Code: duct Name:	601743 Anti-F4/80 FITC Test Re	eagent				
1.2 Rele	.2 Relevant identified uses of the substance or mixture and uses advised against:						
Re	Relevant identified uses: For research use only, not for human or veterinary use.						
Co	Company Name: Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108						
	ormation:	www.caymanchem.com Cayman Chemical Com		+1 (73	4)971-3335		
	ergency telephone number	-	pully				
	nergency Contact:	CHEMTREC Within USA CHEMTREC Outside US		-	00)424-9300 03)527-3887		
		Section 2. Ha	zards Identif	ication			
	sification of the Substan el Elements:	ce or Mixture:					
Gi Ba Gi No Gi Qi 2.3 Adv	GHS Signal Word:NoneGHS Hazard Phrases:Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.GHS Precaution Phrases:No phrases apply.GHS Response Phrases:No phrases apply.GHS Storage and Disposal Phrases:Please refer to Section 7 for Storage and Section 13 for Disposal information.						
CAS # /	Hazardous Compon	n 3. Composition	Concentration	EC No./	GHS Classification		
RTECS # NA NA	REACH Registration		0.003 %	EC Index No.	No data available.		
7647-14-5 VZ4725000	Sodium chloride 01-2119485491-33		0.8 %	231-598-3 NA	No GHS classifications apply.		
7447-40-7 TS8050000	Potassium chloride 01-2119539416-36		0.02 %	231-211-8 NA	No GHS classifications apply.		
7558-79-4 WC4500000	01-2119489797-11		0.14 %	231-448-7 NA	Eye Damage 2: H319		
7778-77-0 TC6615500	Potassium phosphate, N 01-2119490224-41	lonobasic	0.024 %	231-913-4 NA	No GHS classifications apply.		
26628-22-8 VY8050000			0.1 %	247-852-1 011-004-00-7	Acute Tox.(O) 2: H300 Aquatic (A) 1: H400		
					Multi-region format		



Revision: 08/19/2018

L		1		I					
						Aquatic (C) 1: H410			
	8-46-8 46000	Bovine Serum Albur	nin (BSA)	1.0 %	232-936-2 NA	Acute Tox.(O) 4: H302			
	2-18-5 10000	Water na		97.913 %	231-791-2 NA	No GHS classifications apply.			
			Section 4	. First Aid Mea	asures				
4.1	Descri	ption of First Aid							
	Measu	res:							
	In Case of Inhalation:		Remove to fresh air. If Get immediate medical		ficial respiration or	give oxygen by trained personnel.			
In Case of Skin Contact:		e of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.						
	In Case	e of Eye Contact:	Hold eyelids apart and and tested by medical	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined					
	In Case	e of Ingestion:			s conscious. Never	give anything by mouth to an			
		.				iting unless directed to do so by			
			medical personnel.						
			Section 5.	Fire Fighting N	leasures				
5.1	Suitabl	le Extinguishing	Use alcohol-resistant f	oam, carbon dioxide, v	vater, or dry chemic	al spray.			
	Media:		Use water spray to coo	ol fire-exposed contain	ers.				
			A solid water stream m	nay be inefficient.					
	Media:								
5.2		-	dNo data available.						
	Hazard	IS:							
	Flash F	74.	No data available.						
		r: ive Limits:	No data. LEL: No data.	UEL: N	la data				
	-	nition Pt:	No data.	UEL. N	lo uala.				
5.3	-			If-contained breathing	apparatus pressure	-demand (NIOSH approved or			
5.5	гие гц		equivalent), and full pro						
			Section 6. Acc	idental Releas	e Measures				
6.1	Protect	tive Precautions,	Avoid breathing vapor	s and provide adequat	e ventilation.				
	Protect	tive Equipment an				preathing apparatus, or respirator,			
	Emerge	ency Procedures:	and appropriate perso	onal protection (rubber	boots, safety goggl	es, and heavy rubber gloves).			
6.2	Enviro Precau	nmental itions:	Take steps to avoid re	elease into the environ	ment, if safe to do s	0.			
6.3	Method	ds and Material Fo	r Contain spill and colle	ct, as appropriate.					
	Contai	nment and Cleanir	ig Transfer to a chemica	I waste container for d	isposal in accordan	ce with local regulations.			
	Up:								
			Section 7.	Handling and	Storage				
7.1	Precau	tions To Be Taken	Avoid breathing dust/fu	ume/gas/mist/vapours/	spray.				
	in Han	dling:	Avoid prolonged or rep	peated exposure.					
7.2	Precau	tions To Be Taken	Keep container tightly						
	in Stor	ing:	Store in accordance w	ith information listed or	n the product insert				



3.1	Exposure Parameters:			
CAS	-	Jurisdiction	Recommended Exposure Limits	Notations
26628	3-22-8 Sodium azide	ACGIH TLV	CEIL: 0.29 mg/m3	
		Europe	TWA: 0.1 mg/m3	Skin Absorpti
			STEL: 0.3 mg/m3	
		France VL	TWA: 0.1 mg/m3 STEL: 0.3 mg/m3	
		Britain EH40	TWA: 0.1 mg/m3 () STEL: 0.3 mg/m3 ()	Skin Absorpti
3.2	Exposure Controls:			
3.2.1	Engineering Controls	se process enclosures, loca	al exhaust ventilation, or other engineering cont	rols to control airbor
	(Ventilation etc.):	vels below recommended e	exposure limits.	
.2.2	Personal protection equipme	ent:		
	Eye Protection: Sa	afety glasses		
	Protective Gloves: Co	ompatible chemical-resistar	nt gloves	
	Other Protective Clothing:La	b coat		
	Respiratory Equipment NI	OSH approved respirator, a	as conditions warrant.	
	(Specify Type):			
	Work/Hygienic/Maintenan Do	o not take internally.		
	ce Practices: Fa	acilities storing or utilizing th	nis material should be equipped with an eyewas	sh and a safety show
	W	ash thoroughly after handli	ng.	
	No	o data available.		
	Sec	tion 9. Physical a	and Chemical Properties	
.1	Information on Basic Physica	al and Chemical Propertie	25	
	Physical States:	[]Gas [X]Liqui	id [] Solid	
	Appearance and Odor:	A liquid		
	pH:	7.4		
	Melting Point:	No data.		
	Boiling Point:	No data.		
	Flash Pt:	No data.		
	Evaporation Rate:	No data.		
	•	No data.		
	Flammability (solid, gas):	No data available.		
	-		UEL: No data.	
	Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or m	No data available. LEL: No data.	UEL: No data.	
	Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or m Hg):	No data available. LEL: No data. m No data.	UEL: No data.	
	Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or m Hg): Vapor Density (vs. Air = 1):	No data available. LEL: No data.	UEL: No data.	
	Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or m Hg): Vapor Density (vs. Air = 1): Specific Gravity (Water = 1):	No data available. LEL: No data. m No data.	UEL: No data.	
	Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or m Hg): Vapor Density (vs. Air = 1): Specific Gravity (Water = 1): Solubility in Water:	No data available. LEL: No data. m No data. No data. No data. No data. No data.	UEL: No data.	
	Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or m Hg): Vapor Density (vs. Air = 1): Specific Gravity (Water = 1):	No data available. LEL: No data. m No data. No data. No data.	UEL: No data.	



Revision: 08/19/2018

Autoignition Pt: No data. **Decomposition Temperature:** No data. Viscosity: No data. 9.2 **Other Information** Percent Volatile: No data. Section 10. Stability and Reactivity 10.1 **Reactivity:** No data available. 10.2 Stability: Unstable [] Stable [X] 10.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert. **Polymerization:** Will not occur [X] Will occur [] 10.4 **Conditions To Avoid:** No data available. 10.5 Incompatibility - Materials No data available. To Avoid: 10.6 Hazardous No data available. Decomposition or **Byproducts:** Section 11. Toxicological Information The toxicological effects of this product have not been thoroughly studied. 11.1 Information on Sodium azide - Toxicity Data: Oral LD50 (rat): 27 mg/kg; Oral TDLO (woman): 3 mg/kg; **Toxicological Effects:** Intraperitoneal LDLO (rat): 30 mg/kg; Subcutaneous LD50 (rat): 45100 ug/kg; Sodium azide - Investigated as an agricultural chemical, drug, mutagen, reproductive effector, and Chronic Toxicological tumorigen. Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information. Sodium azide RTECS Number: VY8050000 Carcinogenicity: NTP? No IARC Monographs? No **OSHA Regulated? No** CAS # NTP IARC **OSHA** Hazardous Components (Chemical Name) ACGIH NA Rat anti-mouse F4/80 Antibody - FITC n.a. n.a. n.a. n.a. 7647-14-5 Sodium chloride n.a. n.a. n.a. n.a. 7447-40-7 Potassium chloride n.a. n.a. n.a. n.a. 7558-79-4 Sodium phosphate, Dibasic n.a. n.a. n.a. n.a. 7778-77-0 Potassium phosphate, Monobasic n.a. n.a. n.a. n.a. 26628-22-8 Sodium azide n.a. n.a. A4 n.a. 9048-46-8 Bovine Serum Albumin (BSA) n.a. n.a. n.a. n.a. 7732-18-5 Water n.a. n.a. n.a. n.a. Section 12. Ecological Information 12.1 **Toxicity:** Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 12.2 Persistence and No data available. **Degradability:** 12.3 **Bioaccumulative** No data available. Potential: 12.4 Mobility in Soil: No data available. 12.5 Results of PBT and vPvB No data available.



Revision: 08/19/2018

12.6 Other a	adverse effects: No data available.			
	Section 13. Dispo	sal Considera	itions	
13.1 Waste	Disposal Method: Dispose in accordance with loc			
	Section 14. Trar		•	
L 14.1 LAND	TRANSPORT (US DOT):			
	er Shipping Name: Not dangerous goods.			
DOT Haza				
UN/NA Nu	imber:			
14.1 LAND	TRANSPORT (European ADR/RID):			
ADR/RID	Shipping Name: Not dangerous goods.			
UN Numb				
Hazard CI				
	RANSPORT (ICAO/IATA): A Shipping Name: Not dangerous goods.			
Additional Tra		ocal state and feder	al regulations	
Information:				
	Section 15. Regu	latory Informa	ation	
EPA SARA (S	Superfund Amendments and Reauthorization Act			
CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
NA	Rat anti-mouse F4/80 Antibody - FITC	No	No	No
7647-14-5	Sodium chloride	No	No	No
7447-40-7	Potassium chloride	No	No	No
7558-79-4	Sodium phosphate, Dibasic	No	Yes 5000 LB	No
7778-77-0	Potassium phosphate, Monobasic	No	No	No
26628-22-8	Sodium azide	Yes 500 LB	Yes 1000 LB	Yes
9048-46-8	Bovine Serum Albumin (BSA)	No	No	No
7732-18-5	Water	No	No	No
CAS #	Hazardous Components (Chemical Name)	Other US EPA or	State Lists	
NA	Rat anti-mouse F4/80 Antibody - FITC	CAA HAP,ODC: PROP.65: No	No; CWA NPDES: N	lo; TSCA: No; CA
7647-14-5	Sodium chloride	CAA HAP,ODC: Inventory; CA PF	No; CWA NPDES: N ROP.65: No	lo; TSCA: Yes -
7447-40-7	Potassium chloride	CAA HAP,ODC: Inventory; CA PF	No; CWA NPDES: N ROP.65: No	lo; TSCA: Yes -
7558-79-4	Sodium phosphate, Dibasic	CAA HAP,ODC: Inventory; CA PF	No; CWA NPDES: N ROP.65: No	lo; TSCA: Yes -
7778-77-0	Potassium phosphate, Monobasic	CAA HAP,ODC: Inventory; CA PF	No; CWA NPDES: N ROP.65: No	lo; TSCA: Yes -
26628-22-8	Sodium azide	CAA HAP,ODC: Inventory; CA PF	No; CWA NPDES: N ROP.65: No	lo; TSCA: Yes -
9048-46-8	Bovine Serum Albumin (BSA)	CAA HAP,ODC: Inventory; CA PF	No; CWA NPDES: N ROP.65: No	lo; TSCA: Yes -
7732-18-5	Water	CAA HAP,ODC:	No; CWA NPDES: N	lo; TSCA: Yes - Multi-region forma
1				Multi-region format



Revision: 08/19/2018

Page: 6 of 6

	Inventory; CA PROP.65: No
Regulatory Information Statement:	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.
	Section 16. Other Information
Revision Date:	08/19/2018
Additional Information 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.



Revision: 08/12/2018 Supersedes Revision: 11/20/2017

	CHEMICAL	ing to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/83	20 and US OSHA HCS 20H AH2O 2H has 0			
		Identification of the Substance/Mixture and of the	пе сопранующенакіну			
.1	Product Code:	10009322				
	Product Name:	Cell-Based Assay Buffer Tablet				
2	Relevant identified uses	of the substance or mixture and uses advised ag	ainst:			
	Relevant identified uses	s: For research use only, not for human or veteri	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			
.4	Emergency telephone nu					
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300			
	0 /	CHEMTREC Outside USA and Canada:	+1 (703)527-3887			
		Section 2. Hazards Identific	ation			
.1	Classification of the Subs					
	Skin Corrosion/Irritatio					
	Serious Eye Damage/Eye Irritation, Category 2					
2.2	Label Elements:	, ,				
.2	Label Elements:	Warning				
.2	Label Elements: GHS Signal Word: GHS Hazard Phrases:	Warning				
.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H316: Causes mild skin i	Warning				
.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H316: Causes mild skin i H319: Causes serious ey	Warning irritation. /e irritation.				
.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H316: Causes mild skin i H319: Causes serious ey GHS Precaution Phrase	Warning irritation. /e irritation.				
.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H316: Causes mild skin i H319: Causes serious ey GHS Precaution Phrase P264: Wash {hands} thom	Warning irritation. /e irritation. es: roughly after handling.	ion}.			
.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H316: Causes mild skin i H319: Causes serious ey GHS Precaution Phrase P264: Wash {hands} thom P280: Wear {protective g	Warning irritation. /e irritation. es: roughly after handling. loves/protective clothing/eye protection/face protecti	ion}.			
.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H316: Causes mild skin i H319: Causes serious ey GHS Precaution Phrase P264: Wash {hands} thom P280: Wear {protective g GHS Response Phrase	Warning irritation. /e irritation. es: roughly after handling. loves/protective clothing/eye protection/face protecti				
.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H316: Causes mild skin i H319: Causes serious ey GHS Precaution Phrase P264: Wash {hands} thom P280: Wear {protective g GHS Response Phrase	Warning irritation. /e irritation. es: roughly after handling. loves/protective clothing/eye protection/face protecti s:				
.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H316: Causes mild skin i H319: Causes serious ey GHS Precaution Phrase P264: Wash {hands} thou P280: Wear {protective g GHS Response Phrase P305+351+338: IF IN EY to do. Continue rinsing.	Warning irritation. /e irritation. es: roughly after handling. loves/protective clothing/eye protection/face protecti s:				
.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H316: Causes mild skin i H319: Causes serious ey GHS Precaution Phrase P264: Wash {hands} thou P280: Wear {protective g GHS Response Phrase P305+351+338: IF IN EX to do. Continue rinsing. P332+313: If skin irritation	Warning irritation. /e irritation. es: roughly after handling. lloves/protective clothing/eye protection/face protect s: /ES: Rinse cautiously with water for several minutes				
.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H316: Causes mild skin i H319: Causes serious ey GHS Precaution Phrase P264: Wash {hands} thou P280: Wear {protective g GHS Response Phrase P305+351+338: IF IN EX to do. Continue rinsing. P332+313: If skin irritation	Warning irritation. /e irritation. es: roughly after handling. loves/protective clothing/eye protection/face protect s: /ES: Rinse cautiously with water for several minutes on occurs, get medical advice/attention. n persists, get medical advice/attention.				
	Label Elements: GHS Signal Word: GHS Hazard Phrases: H316: Causes mild skin i H319: Causes serious ey GHS Precaution Phrase P264: Wash {hands} thou P280: Wear {protective g GHS Response Phrase P305+351+338: IF IN EY to do. Continue rinsing. P332+313: If skin irritatio P337+313: If eye irritatio GHS Storage and Dispon Please refer to Section 7	Warning irritation. /e irritation. /e irritation. /es: roughly after handling. ploves/protective clothing/eye protection/face protection s: /ES: Rinse cautiously with water for several minutes on occurs, get medical advice/attention. n persists, get medical advice/attention. psal Phrases: for Storage and Section 13 for Disposal information	. Remove contact lenses, if present and easy			
	Label Elements: GHS Signal Word: GHS Hazard Phrases: H316: Causes mild skin i H319: Causes serious ey GHS Precaution Phrase P264: Wash {hands} thou P280: Wear {protective g GHS Response Phrase P305+351+338: IF IN EY to do. Continue rinsing. P332+313: If skin irritatio P337+313: If eye irritatio GHS Storage and Dispo Please refer to Section 7 Adverse Human Health	Warning irritation. //e irritation. //e irritation. //es: roughly after handling. //oves/protective clothing/eye protection/face protection /face protection /f	. Remove contact lenses, if present and easy			
	Label Elements: GHS Signal Word: GHS Hazard Phrases: H316: Causes mild skin i H319: Causes serious ey GHS Precaution Phrase P264: Wash {hands} thou P280: Wear {protective g GHS Response Phrase P305+351+338: IF IN EY to do. Continue rinsing. P332+313: If skin irritatio P337+313: If eye irritatio GHS Storage and Dispon Please refer to Section 7	Warning irritation. /e irritation. /e irritation. /es: roughly after handling. /loves/protective clothing/eye protection/face protection/ /loves/protective clothing/eye protection/face protections: // ES: Rinse cautiously with water for several minutes on occurs, get medical advice/attention. /n persists, get medical advice/attention. // sal Phrases: for Storage and Section 13 for Disposal information Causes serious eye irritation. Causes mild skin irritation.	. Remove contact lenses, if present and easy			
	Label Elements: GHS Signal Word: GHS Hazard Phrases: H316: Causes mild skin i H319: Causes serious ey GHS Precaution Phrase P264: Wash {hands} thou P280: Wear {protective g GHS Response Phrase P305+351+338: IF IN EY to do. Continue rinsing. P332+313: If skin irritatio P337+313: If eye irritatio GHS Storage and Dispo Please refer to Section 7 Adverse Human Health	Warning irritation. /e irritation. /e irritation. /es: roughly after handling. ploves/protective clothing/eye protection/face protection /face protec	. Remove contact lenses, if present and easy			
	Label Elements: GHS Signal Word: GHS Hazard Phrases: H316: Causes mild skin i H319: Causes serious ey GHS Precaution Phrase P264: Wash {hands} thou P280: Wear {protective g GHS Response Phrase P305+351+338: IF IN EY to do. Continue rinsing. P332+313: If skin irritatio P337+313: If eye irritatio GHS Storage and Dispo Please refer to Section 7 Adverse Human Health	Warning irritation. //e irritation. //e irritation. //es: roughly after handling. //oves/protective clothing/eye protection/face protection/ //face protection/ //face protections //face protection //face protections //face	. Remove contact lenses, if present and easy			
2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H316: Causes mild skin i H319: Causes serious ey GHS Precaution Phrase P264: Wash {hands} thou P280: Wear {protective g GHS Response Phrase P305+351+338: IF IN EY to do. Continue rinsing. P332+313: If skin irritatio P337+313: If eye irritatio GHS Storage and Dispo Please refer to Section 7 Adverse Human Health	Warning irritation. /e irritation. /e irritation. /es: roughly after handling. ploves/protective clothing/eye protection/face protection /face protec	. Remove contact lenses, if present and easy es and upper respiratory tract. osorption.			



Revision: 08/12/2018 Supersedes Revision: 11/20/2017

CAS	#/	Hazardous Com	oonents (Chemical Name)/	Concentration	EC No./	GHS Classification		
RTE		REACH Registrat			EC Index No.			
NA NA		Phosphate buffered	saline (PBS) tablet	100.0 %	NA NA	No data available.		
			Section 4. Fi	rst Aid Meas	ures	·		
4.1 Description of First Aid								
Measures: In Case of Inhalation: In Case of Skin Conta		es:						
		of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel.						
		Get immediate medical attention.						
		of Skin Contact:	ct: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated					
			clothing. Get medical attention		-			
	In Case	of Eye Contact:			vater for at least 1	5 minutes. Have eyes examined		
			and tested by medical persor					
	In Case	of Ingestion:	Wash out mouth with water p	•	•			
			-	dical attention. Do N	IOT induce vomiti	ng unless directed to do so by		
			medical personnel.					
			Section 5. Fire	Fighting Me	asures			
5.1	Suitable	e Extinguishing	Use alcohol-resistant foam,		-	spray.		
	Media:		Use water spray to cool fire-	exposed containers				
	Unsuita	ble Extinguishing	A solid water stream may be	inefficient.				
	Media:							
5.2		-	d No data available.					
	Hazard	S:						
			No data available.					
	Flash P		No data.					
	=	ve Limits:	LEL: No data.	UEL: No d	ata.			
	-	nition Pt:	No data.					
5.3	Fire Fig	hting Instructions	s: As in any fire, wear self-cont	÷	-			
			equivalent), and full protectiv	e gear to prevent co	ontact with skin an	d eyes.		
			Section 6. Accider	ntal Release	Measures			
6.1	Protect	ive Precautions,	Avoid raising and breathing	dust, and provide a	dequate ventilation	۱.		
	Protect	ive Equipment and				eathing apparatus, or respirator,		
	Emerge	ency Procedures:	and appropriate personal pr	otection (rubber boo	ots, safety goggles	, and heavy rubber gloves).		
6.2	Enviror	nmental	Take steps to avoid release	into the environmer	nt, if safe to do so.			
	Precaut	tions:						
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:	Up:						
			Section 7. Har	ndling and St	orage			
7.1	Precaut	tions To Be Taken	Avoid breathing dust/fume/g	as/mist/vapours/spr	ay.			
	in Hand	lling:	Avoid prolonged or repeated	exposure.				
7.2	Precaut	tions To Be Taken	Keep container tightly closed	ł.				
	in Stori	ng:	Store in accordance with info	ormation listed on th	e product insert.			
						Multi-region forma		



		tion 8. Exposure Controls/Personal Protection				
3.1	Exposure Parameters:					
8.2	Exposure Controls:					
8.2.1	Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborn				
	(Ventilation etc.):	levels below recommended exposure limits.				
8.2.2	• • •					
	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/Maintenar	-				
	ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safet				
		shower.				
		Wash thoroughly after handling.				
		No data available.				
	S	ection 9. Physical and Chemical Properties				
9.1	Information on Basic Phys	sical and Chemical Properties				
9 .1	Information on Basic Physical States:	sical and Chemical Properties [] Gas [] Liquid [X] Solid				
9.1	-	-				
9.1	Physical States:	[]Gas []Liquid [X]Solid				
9.1	Physical States: Appearance and Odor:	[] Gas [] Liquid [X] Solid PBS tablet				
9.1	Physical States: Appearance and Odor: pH:	[]Gas []Liquid [X]Solid PBS tablet 7.4				
9.1	Physical States: Appearance and Odor: pH: Melting Point:	[]Gas []Liquid [X]Solid PBS tablet 7.4 No data.				
9.1	Physical States: Appearance and Odor: pH: Melting Point: Boiling Point:	[]Gas []Liquid [X]Solid PBS tablet 7.4 No data. No data.				
9.1	Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt:	[] Gas [] Liquid [X] Solid PBS tablet 7.4 No data. No data. No data. No data.				
9.1	Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate:	[] Gas [] Liquid [X] Solid PBS tablet 7.4 No data. No data. No data. No data.				
9.1	Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas):	[] Gas [] Liquid [X] Solid PBS tablet 7.4 No data. No data. No data. No data. No data. LEL: No data. UEL: No data.				
9.1	Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits:	[] Gas [] Liquid [X] Solid PBS tablet 7.4 No data. No data. No data. No data. No data. LEL: No data. UEL: No data.				
9.1	Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air o	[] Gas [] Liquid [X] Solid PBS tablet 7.4 No data. No data. No data. No data. No data. No data. LEL: No data. Tmm No data.				
9.1	Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air o Hg):	<pre>[] Gas [] Liquid [X] Solid PBS tablet 7.4 No data. No data. No data. No data. No data. No data. LEL: No data. UEL: No data. rmm No data.): No data.</pre>				
9.1	Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air o Hg): Vapor Density (vs. Air = 1	<pre>[] Gas [] Liquid [X] Solid PBS tablet 7.4 No data. No data. No data. No data. No data. No data. LEL: No data. UEL: No data. rmm No data.): No data.</pre>				
9.1	Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air o Hg): Vapor Density (vs. Air = 1 Specific Gravity (Water =	<pre>[]Gas []Liquid [X]Solid PBS tablet 7.4 No data. No data. No data. No data. No data. No data. LEL: No data. UEL: No data. rmm No data.): No data.] No data.] No data.] No data.</pre>				
9.1	Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air o Hg): Vapor Density (vs. Air = 1 Specific Gravity (Water = Solubility in Water:	<pre>[]Gas []Liquid [X]Solid PBS tablet 7.4 No data. No data. No data. No data. No data. LEL: No data. LEL: No data.): No data.]: No data.</pre>				
9.1	Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air o Hg): Vapor Density (vs. Air = 1 Specific Gravity (Water = Solubility in Water: Solubility Notes:	<pre>[] Gas [] Liquid [X] Solid PBS tablet 7.4 No data. No data. No data. No data. No data. LEL: No data. UEL: No data.): No data.]: No data.]:</pre>				
9.1	Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air o Hg): Vapor Density (vs. Air = 1 Specific Gravity (Water = Solubility in Water: Solubility Notes: Octanol/Water Partition	<pre>[] Gas [] Liquid [X] Solid PBS tablet 7.4 No data. No data. No data. No data. No data. LEL: No data. UEL: No data.): No data.]: No data.]:</pre>				
9.1	Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air o Hg): Vapor Density (vs. Air = 1 Specific Gravity (Water = Solubility in Water: Solubility Notes: Octanol/Water Partition Coefficient:	[]Gas []Liquid [X]Solid PBS tablet 7.4 No data. No data. No data. No data. No data. No data. LEL: No data. UEL: No data. No data.				



9.2	Other In	formation			51	upersedes Revis	NUT. 11/20/201	
J. Z		Volatile:	No data.					
	reicent	volatile.						
			Section 10. Stability	and Reacti	vity			
10.1	Reactivity: No data available.							
10.2								
10.3								
	-		Will occur [] Will not occur [X]					
10.4		ons To Avoid:	No data available.					
10.5								
			strong oxidizing agents					
10.6	Hazardo		hydrogen chloride gas					
	-	position or	phosphorus oxides					
	Byprod	ucts:	potassium oxides sodium oxides					
			Section 11. Toxicolog	ical Informa	ation			
11.1	Informa	tion on	The toxicological effects of this produ	uct have not beer	n thoroughly st	udied.		
	Toxicol	ogical Effects:						
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
	NA	Phosphate buffer	ed saline (PBS) tablet	n.a.	n.a.	n.a.	n.a.	
		·	Section 12. Ecologic	al Informat	ion	•	·	
12.1	Toxicity	/:	Avoid release into the environment.					
			Runoff from fire control or dilution wa	iter may cause p	ollution.			
12.2	Persiste	ence and	No data available.					
	Degrada	ability:						
12.3	Bioaccu	umulative	No data available.					
	Potentia							
12.4	Mobility	in Soil:	No data available.					
12.5	-	of PBT and vPvB						
	assessr							
12.6		dverse effects:	No data available.					
-			Section 13. Disposal	Considerat	ione			
13.1	Wasto F	Disposal Method:	Dispose in accordance with local, sta					
	Music L				-			
			Section 14. Transpo	nt iniornat				
14.1		RANSPORT (US I	-					
	-	er Shipping Name:	Not dangerous goods.					
	OT Hazar							
U	N/NA Nur							
14.1		RANSPORT (Euro						
		hipping Name:	Not dangerous goods.					
	N Numbe							
Н	azard Cla	ISS:						
							lulti-rogion for	



Revision: 08/12/2018 Supersedes Revision: 11/20/2017

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:

Not dangerous goods.

Additional Transport Information: Transport in accordance with local, state, and federal regulations.

Section 15. Regulatory Information

CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
NA Phosphate buffere		ed saline (PBS) tablet	No	No	No	
CAS # Hazardous Com		ponents (Chemical Name)	Other US EPA or State Lists			
NA Phosphate buffered		ed saline (PBS) tablet	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; PROP.65: No		No; TSCA: No; CA	
Regulatory Info Statement:	ormation	This SDS was prepared in acc No.1272/2008.	ordance with 29 CFF	R 1910.1200 and R	egulation (EC)	
		Section 16. Ot	her Information	on		
Revision Date:		08/12/2018				
Additional Info	rmation About	No data available.				
This Product:						
Company Polic	y or Disclaimer:	DISCLAIMER: This information currently available to us. Howe express or implied, with respec- use. Users should make their their particular purposes.	ever, we make no wa ct to such informatior	rranty of merchanta n, and we assume r	bility or any other warranty to liability resulting from its	