

Revision: 10/15/2015

	aco	cording to Regulation (EC) No. 1907/2006 as amended by	(EC) No. 1272/2008
	Section 1.	Identification of the Substance/Mixture and of the	he Company/Undertaking
1.1	Product Code:	401134	
	Product Name:	8-Hydroxyguanosine ELISA Standard	
1.2	Relevant identified uses of	of the substance or mixture and uses advised ag	ainst:
	Relevant identified uses	For research use only, not for human or veteri	nary 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 nu	mber:	
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887
		Section 2. Hazards Identific	ation
2.1	Classification of the Subs	stance or Mixture:	
	Flammable Liquids, Cat	tegory 2	
2.2	Label Elements:		
2.3	P280: Wear {protective g GHS Response Phrases P303+361+353: IF ON S water/shower. GHS Storage and Dispo	es: heat/sparks/open flames/hot surfaces} No smoking loves/protective clothing/eye protection/face protect s: KIN (or hair): Remove/take off immediately all conta	ion}. minated clothing. Rinse skin with es and upper respiratory tract. psorption. on.



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			Hazardous Components (Chemical Name)/ REACH Registration No.		EC No./ EC Index No.	GHS Classification	
	47-89-6 782675	8-hydroxy-2-deoxy C	Guanosine (hydrate)	< 0.01 %	NA NA	No data available.	
	-17-5 800000	Ethyl alcohol		99.99 %	200-578-6 603-002-00-5	Flam. Liq. 2: H225	
			Section 4. Fi	rst Ald Meas	ures		
4.1	-	ption of First Aid					
			Remove to fresh air. If not brocket immediate medical atten		al respiration or giv	ve oxygen by trained personnel	
	In Case	e of Skin Contact:	Immediately wash skin with s clothing. Get medical attention			i minutes. Remove contaminate efore reuse.	
	In Case	e of Eye Contact:	Hold eyelids apart and flush and tested by medical persor		vater for at least 1	5 minutes. Have eyes examine	
	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.						
4.2	Important Symptoms and May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude						
	-	, Both Acute and	(weakness, exhaustion), liver	-		-	
	Effects	, Both Acute and		damage, narcosis,	reproductive effec	-	
5.1	Effects Delaye	, Both Acute and	(weakness, exhaustion), liver Section 5. Fire Use alcohol-resistant foam, o	damage, narcosis, Fighting Me carbon dioxide, wate	reproductive effec asures er, or dry chemical	ets, teratogenic effects.	
	Effects Delaye	e, Both Acute and d: le Extinguishing	(weakness, exhaustion), liver Section 5. Fire	damage, narcosis, Fighting Me carbon dioxide, wate	reproductive effec asures er, or dry chemical	ets, teratogenic effects.	
	Effects Delaye Suitabl Media: Unsuita	e, Both Acute and d: le Extinguishing able Extinguishing	(weakness, exhaustion), liver Section 5. Fire Use alcohol-resistant foam, o	damage, narcosis, Fighting Me carbon dioxide, wate exposed containers.	reproductive effec asures er, or dry chemical	ets, teratogenic effects.	
5.1	Effects Delayed Suitabl Media: Unsuita Media:	a, Both Acute and d: le Extinguishing able Extinguishing	(weakness, exhaustion), liver Section 5. Fire Use alcohol-resistant foam, o Use water spray to cool fire-o A solid water stream may be	damage, narcosis, Fighting Me carbon dioxide, wate exposed containers. inefficient.	reproductive effec ASURES er, or dry chemical	spray.	
5.1	Effects Delayed Suitabl Media: Unsuita Media:	able Properties and	(weakness, exhaustion), liver Section 5. Fire Use alcohol-resistant foam, o Use water spray to cool fire-o	damage, narcosis, Fighting Me carbon dioxide, wate exposed containers. inefficient.	reproductive effect asures er, or dry chemical at temperatures a	spray.	
5.1	Effects Delayer Suitabl Media: Unsuita Media: Flamma	able Properties and	(weakness, exhaustion), liver Section 5. Fire Use alcohol-resistant foam, of Use water spray to cool fire-of A solid water stream may be dCan release vapors that form	damage, narcosis, Fighting Me carbon dioxide, wate exposed containers. inefficient. n explosive mixtures cur under fire conditi	reproductive effect asures er, or dry chemical at temperatures a	spray.	
5.1	Effects Delayer Suitabl Media: Unsuita Media: Flamma	able Properties and	(weakness, exhaustion), liver Section 5. Fire Use alcohol-resistant foam, of Use water spray to cool fire-of A solid water stream may be dCan release vapors that form Container explosion may occ Emits toxic fumes under fire Sensitive to static discharge.	damage, narcosis, Fighting Me carbon dioxide, wate exposed containers. inefficient. n explosive mixtures cur under fire conditi conditions.	reproductive effect ASUIES er, or dry chemical at temperatures a ons.	spray.	
5.1	Effects Delayer Suitabl Media: Unsuita Media: Flamma	able Properties and	(weakness, exhaustion), liver Section 5. Fire Use alcohol-resistant foam, of Use water spray to cool fire-of A solid water stream may be dCan release vapors that form Container explosion may occ Emits toxic fumes under fire Sensitive to static discharge. Vapors can travel to a source	damage, narcosis, Fighting Me carbon dioxide, wate exposed containers. inefficient. n explosive mixtures cur under fire conditi conditions.	reproductive effect ASUIES er, or dry chemical at temperatures a ons.	spray.	
5.1	Effects Delayed Suitabl Media: Unsuita Media: Flamma Hazard	able Properties an	(weakness, exhaustion), liver Section 5. Fire Use alcohol-resistant foam, of Use water spray to cool fire-of A solid water stream may be dCan release vapors that form Container explosion may occ Emits toxic fumes under fire Sensitive to static discharge. Vapors can travel to a source No data available.	damage, narcosis, Fighting Me carbon dioxide, wate exposed containers. inefficient. n explosive mixtures cur under fire conditi conditions. e of ignition and flas	reproductive effect ASURES er, or dry chemical at temperatures a ons.	spray.	
5.1	Effects Delayed Suitabl Media: Unsuita Media: Flamma Hazard	able Properties and s:	(weakness, exhaustion), liver Section 5. Fire Use alcohol-resistant foam, of Use water spray to cool fire-of A solid water stream may be dCan release vapors that form Container explosion may occ Emits toxic fumes under fire Sensitive to static discharge. Vapors can travel to a source No data available. 14.00 C Method Used: Cl	damage, narcosis, Fighting Me carbon dioxide, wate exposed containers. inefficient. n explosive mixtures cur under fire conditi conditions. e of ignition and flas osed Cup	reproductive effect asures er, or dry chemical at temperatures a ons. h back.	spray.	
5.1	Effects Delayed Suitabl Media: Unsuita Media: Flamma Hazard	e, Both Acute and d: le Extinguishing able Extinguishing able Properties an ls: Pt: ive Limits:	(weakness, exhaustion), liver Section 5. Fire Use alcohol-resistant foam, of Use water spray to cool fire-of A solid water stream may be dCan release vapors that form Container explosion may occ Emits toxic fumes under fire Sensitive to static discharge. Vapors can travel to a source No data available. 14.00 C Method Used: CI LEL: 3.3% at 25.0 C	damage, narcosis, Fighting Me carbon dioxide, wate exposed containers. inefficient. n explosive mixtures cur under fire conditi conditions. e of ignition and flas osed Cup	reproductive effect asures er, or dry chemical at temperatures a ons. h back.	spray.	
5.1	Effects Delayed Suitabl Media: Unsuita Media: Flamma Hazard	able Extinguishing able Extinguishing able Properties an ls: Pt: ive Limits: nition Pt:	(weakness, exhaustion), liver Section 5. Fire Use alcohol-resistant foam, of Use water spray to cool fire-of A solid water stream may be dCan release vapors that form Container explosion may occ Emits toxic fumes under fire Sensitive to static discharge. Vapors can travel to a source No data available. 14.00 C Method Used: Cl LEL: 3.3% at 25.0 C 363.00 C	damage, narcosis, Fighting Me carbon dioxide, wate exposed containers. inefficient. n explosive mixtures cur under fire conditi conditions. e of ignition and flas osed Cup UEL: 19.0%	asures asures er, or dry chemical at temperatures a ons. h back. at 25.0 C	spray.	
5.1	Effects Delayed Suitabl Media: Unsuita Media: Flamma Hazard	able Extinguishing able Extinguishing able Properties an ls: Pt: ive Limits: nition Pt:	(weakness, exhaustion), liver Section 5. Fire Use alcohol-resistant foam, of Use water spray to cool fire-of A solid water stream may be dCan release vapors that form Container explosion may occ Emits toxic fumes under fire Sensitive to static discharge. Vapors can travel to a source No data available. 14.00 C Method Used: CI LEL: 3.3% at 25.0 C	damage, narcosis, Fighting Me carbon dioxide, wate exposed containers. inefficient. n explosive mixtures cur under fire conditi conditions. e of ignition and flas osed Cup UEL: 19.0% ained breathing app re gear to prevent commutation	reproductive effect ASURES er, or dry chemical at temperatures a ons. h back. at 25.0 C aratus pressure-d	emand (NIOSH approved or	
5.1	Effects Delayed Suitabl Media: Unsuita Media: Flamma Hazard	able Extinguishing able Extinguishing able Properties an ls: Pt: ive Limits: nition Pt:	(weakness, exhaustion), liver Section 5. Fire Use alcohol-resistant foam, of Use water spray to cool fire-of A solid water stream may be d Can release vapors that form Container explosion may occ Emits toxic fumes under fire Sensitive to static discharge. Vapors can travel to a source No data available. 14.00 C Method Used: Cl LEL: 3.3% at 25.0 C 363.00 C s: As in any fire, wear self-cont equivalent), and full protective	damage, narcosis, Fighting Me carbon dioxide, wate exposed containers. inefficient. n explosive mixtures cur under fire conditi conditions. e of ignition and flas osed Cup UEL: 19.0% ained breathing app re gear to prevent commutation	reproductive effect ASURES er, or dry chemical at temperatures a ons. h back. at 25.0 C aratus pressure-d	emand (NIOSH approved or	
	Effects Delayed Suitabl Media: Unsuita Media: Flamma Hazard	able Extinguishing able Extinguishing able Properties an ls: Pt: ive Limits: nition Pt:	(weakness, exhaustion), liver Section 5. Fire Use alcohol-resistant foam, of Use water spray to cool fire-of A solid water stream may be d Can release vapors that form Container explosion may occ Emits toxic fumes under fire Sensitive to static discharge. Vapors can travel to a source No data available. 14.00 C Method Used: Cl LEL: 3.3% at 25.0 C 363.00 C s: As in any fire, wear self-cont equivalent), and full protective	damage, narcosis, Fighting Me carbon dioxide, wate exposed containers. inefficient. n explosive mixtures cur under fire conditi conditions. e of ignition and flas osed Cup UEL: 19.0% ained breathing app re gear to prevent commutation	reproductive effect ASURES er, or dry chemical at temperatures a ons. h back. at 25.0 C aratus pressure-d	emand (NIOSH approved or	



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			Section 6. Ac	cidental Release Me	easures		
6.1	Protecti	ve Precautions,	Avoid breathing vapo	ors and provide adequate venti	lation.		
	Protecti	ve Equipment and	As conditions warran	t, wear a NIOSH approved sel	f-contained breathing appa	ratus, or respirator	
I	Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves)						
5.2	Environ	-		elease into the environment, if		c ,	
	Precautions:			olocoo into the onthe intention, i			
6.3			Contain spill and coll	ect as appropriate			
5.5					in accordance with local re	aulations	
	Up:	Containment and CleaningTransfer to a chemical waste container for disposal in accordance with local regulations.					
	υр.						
			Section 7.	Handling and Stor	age		
7.1	Precaut	ions To Be Taken	Avoid breathing dust/	fume/gas/mist/vapours/spray.			
	in Hand	ling:	Avoid prolonged or re	peated exposure.			
			Keep away from sour	-			
				neasures against static dischar	ge.		
7.2	Precaut	ions To Be Taken	Keep away from heat	-			
	in Storii	ng:	Keep container tightly				
				with information listed on the p	roduct insert.		
	Other P	recautions:	Hygroscopic.				
		Sect	ion 8. Exposu	re Controls/Persona	al Protection		
3.1	Exposur	e Parameters:					
CAS	#	Partial Chemical	Name	Britain EH40	France VL	Europe	
888	47-89-6	8-hydroxy-2-deox	y Guanosine (hydrate)	No data.	No data.	No data.	
64	4-17-5	Ethyl alcohol		TWA: 1920 mg/m3 (1000 ppm)	TWA: 1900 mg/m3 (1000	No data.	
				STEL: ()	ppm)		
					STEL: 9500 mg/m3 (5000		
<u> </u>	<u> </u>	Douting Chaminal	Neme				
CAS		Partial Chemical		OSHA TWA		Other Limits	
	47-89-6		y Guanosine (hydrate)		No data.	No data.	
	4-17-5	Ethyl alcohol		PEL: 1000 ppm	TLV: 1000 ppm	No data.	
8.2	-	e Controls:					
8.2.1	-	ering Controls	-	res, local exhaust ventilation, c	or other engineering control	s to control airborn	
	(Ventila	tion etc.):	levels below recommo	ended exposure limits.			
8.2.2	Persona	al protection equi	oment:				
	Eye Pro	tection:	Safety glasses				
	Protecti	ve Gloves:	Compatible chemical-	resistant gloves			
	Other P	rotective Clothing	:Lab coat				
	Respira	tory Equipment	NIOSH approved resp	pirator, as conditions warrant.			
	(Specify	/ Туре):					
	Work/H	ygienic/Maintenan	Do not take internally				
	ce Prac	tices:	Facilities storing or ut	ilizing this material should be e	equipped with an eyewash	and a safety showe	
			Wash thoroughly afte	r handling.			
			No data available.				
						Multi-region form	



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	Se	ection 9. Physical and Chemical Properties
9.1	Information on Basic Physi	ical and Chemical Properties
	Physical States:	[]Gas [X]Liquid []Solid
	Appearance and Odor:	liquid
	Melting Point:	No data.
	Boiling Point:	No data.
	Flash Pt:	14.00 C Method Used: Closed Cup
	Evaporation Rate:	No data.
	Flammability (solid, gas):	No data available.
	Explosive Limits:	LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C
	Vapor Pressure (vs. Air or	mm 43 MM_HG at 20.0 C
	Hg):	
	Vapor Density (vs. Air = 1)	: No data.
	Specific Gravity (Water = 1	I): No data.
	Solubility in Water:	No data.
	Autoignition Pt:	363.00 C
9.2	Other Information	
	Percent Volatile:	No data.
		Section 10. Stability and Reactivity
10.4	Depativity	
10.1		No data available.
10.2	-	Unstable [] Stable [X]
10.3		Stable if stored in accordance with information listed on the product insert.
	-	Will occur [] Will not occur [X]
10.4		heat, flames and sparks
10.5	Incompatibility - Materials	
		ammonia
		peroxides
		strong oxidizing agents
10.6		carbon dioxide
		carbon monoxide
	Byproducts:	



SAFETY DATA SHEET 8-Hydroxyguanosine ELISA Standard

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	la fa ser s			n 11. Toxicolo	•		u alta al		
11.1	Informat			gical effects of this pro		0.1		o ···==	
	Toxicolo	gical Effects:		xicity Data: Oral TDLC	· · ·		, 0	•	
				mg/kg; Oral LD50 (mor		-	-	-	
				00 mg/kg; Inhalation L0			•	· · ·	
				Inhalation TCLO (hum		(20m); Inhalati	on LC50 (rat):	5,900 mg/m3	
				ion LCLO (mouse): 29	••••				
				tation Data: Eyes (rab				h) moderate;	
		Toxicological		vestigated as a mutage	•		•		
	Effects:		-	Registry of Toxic Effec		stances (RTE	CS) data is pre	esented here.	
				entry in RTECS for con ECS Number: KQ6300	-				
	nogenicity	i	NTP? No	IARC Monographs?		egulated? No			
CAS		Hazardous Com			NTP	IARC	ACGIH	OSHA	
8884	47-89-6	8-hydroxy-2-deox	y Guanosine	(hydrate)	n.a.	n.a.	n.a.	n.a.	
64	-17-5	Ethyl alcohol			n.a.	1	A4	n.a.	
			Sect	ion 12. Ecologi	ical Informat	ion			
2.1	Toxicity:		Avoid releas	e into the environmen	t.				
			Runoff from fire control or dilution water may cause pollution.						
12.2	Persiste	nce and	No data ava	ilable.					
	Degrada	bility:							
2.3	Bioaccu	mulative	No data ava	ilable.					
	Potentia	I:							
12.4	Mobility	in Soil:	No data available.						
12.5	Results	of PBT and vPvB	No data available.						
	assessm	nent:							
12.6	Other ad	Other adverse effects:		No data available.					
			Sectio	on 13. Disposa	l Considerat	ions			
3.1	Waste D	isposal Method:		accordance with local,					
		•	-	tion 14. Transp		-			
14.1	LAND T	RANSPORT (US I							
		r Shipping Name:	•	cohol Solution					
	OT Hazaro		3	FLAMMABLE					
	N/NA Nun		1170		Packing Grou	D:	II		
Ū			1170			·P•			
			FLºMM ⁰ BLE						
14.1	LAND T	RANSPORT (Euro	opean ADR/F	RID):					
Α	DR/RID SI	hipping Name:	Ethyl Al	cohol Solution					
	N Number	r:	1170		Packing Grou	ıp:	II		
U			3 - FLA	MMABLE LIQUID					
-	azard Cla	55.	• • •						
_	azard Cla	55.							
-	azard Clas								



14.3 AIR TR	ANSPORT (ICAO/	/IATA):				
ICAO/IATA	A Shipping Name:	Ethyl Alcohol Solution				
UN Numbe	er:	1170	Packing Gro	oup:	II	
Hazard Cla	ass:	3 - FLAMMABLE LIQUID	IATA Classi	fication:	3	
Additional Tra	ansport	Transport in accordance with le	ocal, state, and feder	al regulations.		
Information:		When sold in quantities of less	than or equal to 1 m	IL, or 1 g, with an E	Excepted Quantity Code of	
		E1, E2, E4, or E5, this item me		-	-	
		Therefore packaging does not		-	ds/Excepted Quantity.	
		Section 15. Regu	latory Informa	ation		
	1	nents and Reauthorization Act	-			
CAS #		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
88847-89-6	8-hydroxy-2-deox	xy Guanosine (hydrate)	No	No	No	
64-17-5	Ethyl alcohol		No	No	No	
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or	State Lists		
88847-89-6	8-hydroxy-2-deox	xy Guanosine (hydrate)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
64-17-5	Ethyl alcohol		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No			
Regulatory Inf	ormation	This SDS was prepared in acc	ordance with 29 CFF	1910.1200 and R	egulation (EC)	
Statement:		No.1272/2008.				
		Section 16. Ot	her Informatio	on		
Revision Date:	:	10/15/2015				
Additional Info	ormation About	No data available.				
This Product:						
Company Policy or Disclaimer:		DISCLAIMER: This information currently available to us. Howe express or implied, with respec use. Users should make their their particular purposes.	ver, we make no war t to such information	ranty of merchanta , and we assume r	ability or any other warranty no liability resulting from its	



SAFETY DATA SHEET ecoated (Goat Anti-Mouse IgG) EIA 96-V

Multi-region format

Precoated (Goat Anti-Mouse IgG) EIA 96-Well Plate (strip or solid) Supersed

Revision: 07/10/2015 Supersedes Revision: 05/14/2013

					<u> </u>	•
		accord	ling to Regulation (EC) No. 190	7/2006 as amended by	r (EC) No. 1272/200	8
		Section 1. Ide	entification of the Substar	nce/Mixture and of t	the Company/Ur	ndertaking
1.1	Product	Code:	400008/400009			
	Product	Name:	Precoated (Goat Anti-Mo	ouse IgG) EIA 96-We	Il Plate (strip or so	blid)
1.2	Relevan	t identified uses of tl	he substance or mixture a	and uses advised ag	gainst:	
	Releva	ant identified uses:	For research use only, no	ot for human or veter	inary use.	
1.3	Details o	of the Supplier of the	Safety Data Sheet:			
	Comp	any Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	bany		
	Web s	ite address:	www.caymanchem.com			
	Inform	ation:	Cayman Chemical Comp	bany	+1 (734	4)971-3335
1.4	Emerge	ncy telephone numb	er:			
	Emerg	ency Contact:	CHEMTREC Within USA			0)424-9300
			CHEMTREC Outside US	A and Canada:	+1 (703	3)527-3887
			Section 2. Haz	zards Identific	cation	
2.1	Classifie	cation of the Substar	nce or Mixture:			
2.2	Label El	ements:				
	GHS S	ignal Word:	None			
		lazard Phrases:				
			ently available data this sub	stance or mixture is r	not classifiable ac	cording to GHS.
		Precaution Phrases:				
		rases apply.				
		Response Phrases: rases apply.				
	-	Storage and Disposal	Phrases:			
			Storage and Section 13 for	Disposal informatior	٦.	
2.3			laterial may be irritating to t	-		piratory tract.
	Effects	and Symptoms: M	lay be harmful by inhalation	, ingestion, or skin al	bsorption.	
			lay cause eye, skin, or resp			
		Т	o the best of our knowledge	e, the toxicological pr	operties have not	been thoroughly investigated.
		Sectio	n 3. Composition	/Information of	on Ingredie	nts
CAS RTE	6 # / CS #	Hazardous Compon REACH Registration	ents (Chemical Name)/ n No.	Concentration	EC No./ EC Index No.	GHS Classification
NA NA		Precoated (Goat Anti-M (soild or strip)	ouse IgG) EIA 96-Well Plate	100.0 %	NA NA	No data available.
		·			·	·



SAFETY DATA SHEET

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Precoated (Goat Anti-Mouse IgG) EIA 96-Well

Revision: 07/10/2015 Supersedes Revision: 05/14/2013

Plate (strip or solid) 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 20 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 20 minutes. Have eyes examined and tested by medical personnel. Wash out mouth with water provided person is conscious. Never give anything by mouth to an In Case of Ingestion: 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 A solid water stream may be inefficient. Media: 5.2 Flammable Properties and No data available. Hazards: No data available. Flash Pt: No data. LEL: No data. **Explosive Limits:** UEL: No data. Autoignition Pt: No data. 5.3 Fire Fighting Instructions: 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 raising and breathing dust, and provide adequate ventilation. Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves). **Emergency Procedures:** 6.2 Take steps to avoid release into the environment, if safe to do so. Environmental **Precautions:** 6.3 Methods and Material For Contain spill and collect, as appropriate. Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations. Up: Section 7. Handling and Storage 7.1 Precautions To Be Taken 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. Store in accordance with information listed on the product insert. in Storing: Section 8. Exposure Controls/Personal Protection 8.1 **Exposure Parameters:** CAS # **Partial Chemical Name Britain EH40** France VL Europe Precoated (Goat Anti-Mouse IgG) EIA No data. No data. NA No data. **Multi-region format**



SAFETY DATA SHEET Precoated (Goat Anti-Mouse IgG) EIA 96-Well

Plate (strip or solid)

Revision: 07/10/2015 Supersedes Revision: 05/14/2013

	HEMICAL	1		Plate (strip or solid	L) Superse	edes Revision: 05/14/2013	
		96-Well Plate (soild o					
CAS	#	Partial Chemical Na	me	OSHA TWA	ACGIH TWA	Other Limits	
	NA	Precoated (Goat Ant 96-Well Plate (soild o	•	No data.	No data.	No data.	
3.2	Exposu	re Controls:		1		ŀ	
8.2.1	Enginee	ering Controls U	se process enclosu	ures, local exhaust ventilation	n, or other engineering c	ontrols to control airborr	
	(Ventila	tion etc.): le	vels below recomm	nended exposure limits.			
3.2.2	Person	al protection equipm	ent:				
	Eye Pro	stection: S	afety glasses				
	Protecti	ive Gloves: C	ompatible chemica	I-resistant gloves			
	Other P	rotective Clothing:La	ab coat				
	Respira	tory Equipment N	IOSH approved res	spirator, as conditions warra	nt.		
	(Specify	у Туре):					
	Work/H	ygienic/Maintenan D					
	ce Prac		•	Itilizing this material should b	be equipped with an eyev	wash and a safety show	
			ash thoroughly after	er handling.			
		N	o data available.				
		Sec	tion 9. Phys	sical and Chemica	I Properties		
.1	Informat	tion on Basic Physic	al and Chemical F	Properties			
	Physica	al States:	[]Gas [] Liquid [X] Solid			
	Appeara	ance and Odor:	Plate				
	Melting	Point:	No data.				
	Boiling	Point:	No data.				
	Flash P	t:	No data.				
	-	ation Rate:	No data.				
		ability (solid, gas):	No data avail				
	-	ve Limits:	LEL: No data	a. UEL	.: No data.		
	-	Pressure (vs. Air or m	m No data.				
	Hg):						
	-	Density (vs. Air = 1):	No data.				
	•	Gravity (Water = 1):					
		ty in Water:	No data.				
	-	hition Pt:	No data.				
9.2		formation					
	Percent Volatile: No data.						
			Section 10). Stability and Rea	activity		
0.1	Reactiv	ity: N	o data available.				
0.2	Stability	/: U	nstable [] Sta	able [X]			
0.3	Stability	/ Note(s): S	able if stored in ac	cordance with information lis	sted on the product inser	t.	
	Polyme	rization: W	/ill occur [] W	/ill not occur [X]			
0.4	Conditio	ons To Avoid: N	o data available.				
0.5	Incomp	atibility - Materials N	o data available.				
	To Avoi	d:					
0.6	Hazardo	ous N	o data available.				
	Decomp	position or					
						Multi-region for	



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SAFETY DATA SHEET Precoated (Goat Anti-Mouse IgG) EIA 96-Well

Plate (strip or solid)

Revision: 07/10/2015 Supersedes Revision: 05/14/2013

Byproducts:

			Section 11. Toxico	<u> </u>				
1.1	Informa Toxicolo	tion on ogical Effects:	The toxicological effects of this	product have r	not been	thoroughly stu	udied.	
CAS	#	Hazardous Com	ponents (Chemical Name)	N	ТР	IARC	ACGIH	OSHA
	NA	Precoated (Goat or strip)	Anti-Mouse IgG) EIA 96-Well Pla	ate (soild n.	a.	n.a.	n.a.	n.a.
			Section 12. Ecolo	ogical Info	ormati	ion		
2.1	Toxicity	:	Avoid release into the environm	nent.				
			Runoff from fire control or diluti	on water may o	cause po	ollution.		
2.2		ence and	No data available.					
	Degrada	-						
2.3		mulative	No data available.					
	Potentia		Nie dete en 1111					
2.4	Mobility		No data available.					
2.5			No data available.					
12.6	assessn Other ad	nent: dverse effects:	No data available.					
					dorati	onc		
0.4	Marta D		Section 13. Dispos					
3.1	Waste L	isposal Method:	Dispose in accordance with loc			-		
			Section 14. Tran	sport Info	ormat	ion		
14.1	LAND T	RANSPORT (US I	ООТ):					
[OT Prope	er Shipping Name:	Not dangerous goods.					
	OT Hazar							
ι	JN/NA Nur							
14.1		RANSPORT (Euro						
		hipping Name:	Not dangerous goods.					
	JN Numbe lazard Cla							
ء 14.3		SS. ANSPORT (ICAO/I	ΔΤΔ).					
		Shipping Name:	Not dangerous goods.					
	tional Tra		Transport in accordance with lo	ocal. state. and	federal	regulations.		
	mation:					. eguianeriei		
Infor			Section 15. Regu	latory Info	ormat	ion		
Infor			ents and Reauthorization Act					
EPA	•	1		S. 302 (EH	S)	S. 304 RQ	S. 313	
	•	Hazardous Com	ponents (Chemical Name)	· · · ·				
EPA	•	Hazardous Com	Anti-Mouse IgG) EIA 96-Well	No		No	No	, (TRI)
EPA	# NA	Hazardous Com Precoated (Goat A Plate (soild or stri	Anti-Mouse IgG) EIA 96-Well		PA or S		No	



SAFETY DATA SHEET

Precoated (Goat Anti-Mouse IgG) EIA 96-Well Plate (strip or solid)

Revision: 07/10/2015

CHEMICAL	Flate (Strip of Solid) Supersedes Revision: 05/14/2013
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:	07/10/2015
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.

Product Information



A Safety Data Sheet (SDS) on this material is not required as it is non-hazardous. However, we do recommend the following minimum precautions when using this item:

- Store at correct temperature.
- Dispose of by in accordance with federal, state, and local regulations.
- Wash thoroughly after handling.

WARNING:

This product is not intended or approved for human or veterinary use.

The above information is believed to be correct but should only be used as a guide. Cayman Chemical disclaims any express or implied warranty as to the accuracy of the above information and shall not be held liable for any direct, incidental, or consequential damages resulting from reliance on the above information.

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Cayman Chemical

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Web www.caymanchem.com



Revision: 01/09/2015 Supersedes Revision: 12/09/2013

	accor	rding to Regulation (EC) No. 1907/2006 as amended by	(EC) No. 1272/2008
	Section 1. Id	lentification of the Substance/Mixture and of the	ne Company/Undertaking
.1	Product Code:	400035	
	Product Name:	Polysorbate 20	
	Synonyms:	Tween 20™;	
2	Relevant identified uses of	the substance or mixture and uses advised ag	ainst:
	Relevant identified uses:	For research use only, not for human or vetering	nary use.
.3	Details of the Supplier of th	e 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 numl		
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887
		Section 2. Hazards Identific	ation
.2.1	Labeling according to Reg	ulation (EC) No 4070/2009 [CLD].	
		ulation (EC) No 1272/2008 [CLP]:	
	CHS Signal Word:		
	GHS Signal Word:	ulation (EC) No 1272/2008 [CLP]: Warning	
	GHS Hazard Phrases:	Warning	
	GHS Hazard Phrases: H319: Causes serious eye in	Warning ritation.	
	GHS Hazard Phrases: H319: Causes serious eye iri H317: May cause an allergic	Warning ritation.	
	GHS Hazard Phrases: H319: Causes serious eye in	Warning ritation. skin reaction.	
	GHS Hazard Phrases: H319: Causes serious eye in H317: May cause an allergic GHS Precaution Phrases: P264: Wash hands thorough	Warning ritation. skin reaction.	the manufacturer/supplier or the competent
	GHS Hazard Phrases: H319: Causes serious eye in H317: May cause an allergic GHS Precaution Phrases: P264: Wash hands thorough	Warning ritation. skin reaction. ly after handling.	the manufacturer/supplier or the competent
	GHS Hazard Phrases: H319: Causes serious eye in H317: May cause an allergic GHS Precaution Phrases: P264: Wash hands thorough P280: Wear protective gloves	Warning ritation. skin reaction. ly after handling. s/clothing and eye/face protection as specified by	the manufacturer/supplier or the competent
	GHS Hazard Phrases: H319: Causes serious eye in H317: May cause an allergic GHS Precaution Phrases: P264: Wash hands thorough P280: Wear protective gloves authority. P261: Avoid breathing dust/fi	Warning ritation. skin reaction. ly after handling. s/clothing and eye/face protection as specified by	
	GHS Hazard Phrases: H319: Causes serious eye in H317: May cause an allergic GHS Precaution Phrases: P264: Wash hands thorough P280: Wear protective gloves authority. P261: Avoid breathing dust/fi P272: Contaminated work clo	Warning ritation. skin reaction. ly after handling. s/clothing and eye/face protection as specified by ume/gas/mist/vapours/spray.	
	GHS Hazard Phrases: H319: Causes serious eye in H317: May cause an allergic GHS Precaution Phrases: P264: Wash hands thorough P280: Wear protective gloves authority. P261: Avoid breathing dust/fi P272: Contaminated work cle P362+364: Take off contamin GHS Response Phrases:	Warning ritation. skin reaction. ly after handling. s/clothing and eye/face protection as specified by ume/gas/mist/vapours/spray. othing should not be allowed out of the workplace. nated clothing and wash it before reuse.	
	GHS Hazard Phrases: H319: Causes serious eye in H317: May cause an allergic GHS Precaution Phrases: P264: Wash hands thorough P280: Wear protective gloves authority. P261: Avoid breathing dust/fi P272: Contaminated work cle P362+364: Take off contamin GHS Response Phrases: P305+351+338: IF IN EYES:	Warning ritation. skin reaction. ly after handling. s/clothing and eye/face protection as specified by ume/gas/mist/vapours/spray. othing should not be allowed out of the workplace.	
	GHS Hazard Phrases: H319: Causes serious eye in H317: May cause an allergic GHS Precaution Phrases: P264: Wash hands thorough P280: Wear protective gloves authority. P261: Avoid breathing dust/ft P272: Contaminated work clo P362+364: Take off contamin GHS Response Phrases: P305+351+338: IF IN EYES: to do. Continue rinsing.	Warning ritation. skin reaction. ly after handling. s/clothing and eye/face protection as specified by ume/gas/mist/vapours/spray. othing should not be allowed out of the workplace. nated clothing and wash it before reuse.	
	GHS Hazard Phrases: H319: Causes serious eye in H317: May cause an allergic GHS Precaution Phrases: P264: Wash hands thorough P280: Wear protective gloves authority. P261: Avoid breathing dust/fr P272: Contaminated work cle P362+364: Take off contamin GHS Response Phrases: P305+351+338: IF IN EYES: to do. Continue rinsing. P337+313: If eye irritation pe	Warning ritation. skin reaction. Iy after handling. s/clothing and eye/face protection as specified by ume/gas/mist/vapours/spray. othing should not be allowed out of the workplace. nated clothing and wash it before reuse. E Rinse cautiously with water for several minutes. For several minutes.	
	GHS Hazard Phrases: H319: Causes serious eye in H317: May cause an allergic GHS Precaution Phrases: P264: Wash hands thorough P280: Wear protective gloves authority. P261: Avoid breathing dust/fi P272: Contaminated work cle P362+364: Take off contamin GHS Response Phrases: P305+351+338: IF IN EYES: to do. Continue rinsing. P337+313: If eye irritation pe P302+352: IF ON SKIN: Was	Warning ritation. skin reaction. ly after handling. s/clothing and eye/face protection as specified by ume/gas/mist/vapours/spray. othing should not be allowed out of the workplace. nated clothing and wash it before reuse. t Rinse cautiously with water for several minutes. For ersists, get medical advice/attention. sh with plenty of soap and water.	
	GHS Hazard Phrases: H319: Causes serious eye in H317: May cause an allergic GHS Precaution Phrases: P264: Wash hands thorough P280: Wear protective gloves authority. P261: Avoid breathing dust/fr P272: Contaminated work cle P362+364: Take off contamin GHS Response Phrases: P305+351+338: IF IN EYES: to do. Continue rinsing. P337+313: If eye irritation pe P302+352: IF ON SKIN: Was P333+313: If skin irritation or	Warning ritation. skin reaction. ly after handling. s/clothing and eye/face protection as specified by ume/gas/mist/vapours/spray. othing should not be allowed out of the workplace. nated clothing and wash it before reuse. : Rinse cautiously with water for several minutes. F ersists, get medical advice/attention. sh with plenty of soap and water. rash occurs, seek medical advice/attention.	
	GHS Hazard Phrases: H319: Causes serious eye in H317: May cause an allergic GHS Precaution Phrases: P264: Wash hands thorough P280: Wear protective gloves authority. P261: Avoid breathing dust/fi P272: Contaminated work cle P362+364: Take off contamin GHS Response Phrases: P305+351+338: IF IN EYES: to do. Continue rinsing. P337+313: If eye irritation pe P302+352: IF ON SKIN: Was	Warning ritation. skin reaction. ly after handling. s/clothing and eye/face protection as specified by ume/gas/mist/vapours/spray. othing should not be allowed out of the workplace. nated clothing and wash it before reuse. : Rinse cautiously with water for several minutes. F ersists, get medical advice/attention. sh with plenty of soap and water. rash occurs, seek medical advice/attention.	

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CHIMICAL

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 Please refer to Section 7 for Storage and Section 13 for Disposal information.

 2.3
 Adverse Human Health
 Causes serious eye irritation.

 Effects and Symptoms:
 Material may be irritating to the mucous membranes and upper respiratory tract.

 May be harmful by inhalation, ingestion, or skin absorption.
 May cause an allergic skin reaction.

 May cause respiratory system irritation.
 To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Section 3. Composition/Information on Ingredients

CAS # / RTECS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
9005-64-5 TR7400000	Polyoxyethylenesorbitan Monolaurate (polysorbate 20; Sorbitan, monododecanoate, poly(oxy-1,2-ethanediyl) derivatives)	100.0 %	500-018-3 NA	No data available.

		<u>Section</u> 4.	First Aid Measures
1	Description of First Aid Measures:	No data available.	
	In Case of Inhalation:	Remove to fresh air. If no personnel. Get immediate	ot breathing, give artificial respiration or give oxygen by trained e medical attention.
	In Case of Skin Contact:	•	ith soap and plenty of water for at least 15 minutes. Remove et medical attention if symptoms occur. Wash clothing before reuse.
	In Case of Eye Contact:	Hold eyelids apart and flue examined and tested by a	ish eyes with plenty of water for at least 15 minutes. Have eyes medical personnel.
	In Case of Ingestion:		ter provided person is conscious. Never give anything by mouth to an medical attention. Do NOT induce vomiting unless directed to do so by
		Section 5. F	ire Fighting Measures
1	Suitable Extinguishing	Use alcohol-resistant foa	m, carbon dioxide, water, or dry chemical spray.
	Media:	Use water spray to cool f	fire-exposed containers.
	Unsuitable Extinguishing	A solid water stream may	y be inefficient.
	Media:		
2	Flammable Properties an	d No data available.	
	Hazards:		
	Flash Pt:	No data.	
	Explosive Limits:	LEL: No data.	UEL: No data.
	Autoignition Pt:	No data.	
3	Fire Fighting Instructions	•	contained breathing apparatus pressure-demand (NIOSH approved or ective gear to prevent contact with skin and eyes.



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			• • •	· · · · - ·		
				cidental Releas		
6.1		ive Precautions,	-		de adequate ventilation.	
					ved self-contained breathing	
	Emerge	ency Procedures:	and appropriate pers	sonal protection (rubber	boots, safety goggles, and I	neavy rubber gloves).
6.2	Enviror	nmental	Take steps to avoid	release into the environ	ment, if safe to do so.	
	Precaut	tions:				
6.3			Contain spill and coll			
		ment and Cleanin	gTransfer to a chemic	al waste container for c	lisposal in accordance with le	ocal regulations.
	Up:					
			Section 7.	Handling and	Storage	
7.1	Precaut	tions To Be Taken	Avoid breathing dust/	fume/gas/mist/vapours	/spray.	
	in Hand	lling:	Avoid prolonged or re	epeated exposure.		
7.2	Precaut	tions To Be Taken	Keep container tightly			
	in Stori	ng:	Store in accordance	with information listed o	on the product insert.	
		Sec	tion 8. Exposu	ire Controls/Pe	rsonal Protection	
8.1	Exposu	re Parameters:				
CAS	#	Partial Chemical	Name	Britain EH40	France VL	Europe
900	5-64-5	1	orbitan Monolaurate	No data.	No data.	No data.
		(polysorbate 20;				
		monododecanoat	e,			
		noly(oxy-1.2-etha)	nadivl) darivativas)			
<u></u>	#		nediyl) derivatives)			Other Limite
		Partial Chemical	Name	OSHA TWA	ACGIH TWA	Other Limits
	# 5-64-5	Partial Chemical Polyoxyethylenes	Name orbitan Monolaurate	OSHA TWA No data.	ACGIH TWA No data.	Other Limits No data.
		Partial Chemical	Name orbitan Monolaurate Sorbitan,			
		Partial Chemical Polyoxyethylenes (polysorbate 20; monododecanoat	Name orbitan Monolaurate Sorbitan,			
900	5-64-5	Partial Chemical Polyoxyethylenes (polysorbate 20; monododecanoat	Name orbitan Monolaurate Sorbitan, e,			
900 8.2	5-64-5 Exposu	Partial Chemical Polyoxyethylenes (polysorbate 20; monododecanoat poly(oxy-1,2-etha	Name orbitan Monolaurate Sorbitan, e, nediyl) derivatives)	No data.		No data.
900 8.2	5-64-5 Exposu Engine	Partial Chemical Polyoxyethylenes (polysorbate 20; monododecanoat poly(oxy-1,2-ethat re Controls:	Name orbitan Monolaurate Sorbitan, e, nediyl) derivatives) Use process enclosu	No data.	No data.	No data.
900 8.2 8.2.1	5-64-5 Exposu Engined (Ventila	Partial Chemical Polyoxyethylenes (polysorbate 20; monododecanoat poly(oxy-1,2-ethat re Controls: ering Controls	Name orbitan Monolaurate Sorbitan, e, nediyl) derivatives) Use process enclosu levels below recomm	No data. res, local exhaust venti	No data.	No data.
900 8.2 8.2.1	5-64-5 Exposu Engine (Ventila Person	Partial Chemical Polyoxyethylenes (polysorbate 20; monododecanoat poly(oxy-1,2-etha re Controls: ering Controls ttion etc.):	Name orbitan Monolaurate Sorbitan, e, nediyl) derivatives) Use process enclosu levels below recomm	No data. res, local exhaust venti	No data.	No data.
900 8.2 8.2.1	5-64-5 Exposu Engined (Ventila Person Eye Pro	Partial Chemical Polyoxyethylenes (polysorbate 20; monododecanoat poly(oxy-1,2-ethat re Controls: ering Controls tion etc.): al protection equi	Name orbitan Monolaurate Sorbitan, e, nediyl) derivatives) Use process enclosu levels below recomm pment:	No data. res, local exhaust venti ended exposure limits.	No data.	No data.
900 8.2 8.2.1	5-64-5 Exposu Engined (Ventila Person Eye Pro Protect	Partial Chemical Polyoxyethylenes (polysorbate 20; monododecanoat poly(oxy-1,2-etha re Controls: ering Controls ttion etc.): al protection equi	Name orbitan Monolaurate Sorbitan, e, nediyl) derivatives) Use process enclosu levels below recomm pment: Safety glasses Compatible chemical	No data. res, local exhaust venti ended exposure limits.	No data.	No data.
900 8.2 8.2.1	5-64-5 Exposu Engined (Ventila Person Eye Pro Protect Other P	Partial Chemical Polyoxyethylenes (polysorbate 20; monododecanoat poly(oxy-1,2-ethat re Controls: ering Controls tion etc.): al protection equi otection: ive Gloves:	Name orbitan Monolaurate Sorbitan, e, nediyl) derivatives) Use process enclosu levels below recomm pment: Safety glasses Compatible chemical g:Lab coat	No data. res, local exhaust venti ended exposure limits.	No data.	No data.
900 8.2 8.2.1	5-64-5 Exposu Engined (Ventila Person Eye Pro Protect Other P Respira	Partial Chemical Polyoxyethylenes (polysorbate 20; monododecanoat poly(oxy-1,2-etha re Controls: ering Controls ttion etc.): al protection equi otection: ive Gloves: protective Clothing	Name orbitan Monolaurate Sorbitan, e, nediyl) derivatives) Use process enclosu levels below recomm pment: Safety glasses Compatible chemical g:Lab coat	No data. res, local exhaust venti ended exposure limits. -resistant gloves	No data.	No data.
900 8.2 8.2.1	5-64-5 Exposur Engined (Ventila Person Eye Pro Protect Other P Respira (Specify	Partial Chemical Polyoxyethylenes (polysorbate 20; monododecanoat poly(oxy-1,2-etha re Controls: ering Controls al protection equi otection: ive Gloves: Protective Clothing atory Equipment y Type):	Name orbitan Monolaurate Sorbitan, e, nediyl) derivatives) Use process enclosu levels below recomm pment: Safety glasses Compatible chemical g:Lab coat	No data. res, local exhaust venti ended exposure limits. -resistant gloves pirator, as conditions w	No data.	No data.
900 8.2 8.2.1	5-64-5 Exposur Engined (Ventila Person Eye Pro Protect Other P Respira (Specify	Partial Chemical Polyoxyethylenes (polysorbate 20; monododecanoati poly(oxy-1,2-ethat re Controls: ering Controls al protection equi otection: ive Gloves: Protective Clothing atory Equipment y Type): ygienic/Maintenar	Name orbitan Monolaurate Sorbitan, e, nediyl) derivatives) Use process enclosu levels below recomm pment: Safety glasses Compatible chemical g:Lab coat NIOSH approved res	No data. res, local exhaust venti ended exposure limits. -resistant gloves pirator, as conditions w	No data.	No data.
CAS ; 900 8.2 8.2.1 8.2.2	5-64-5 Exposu Engined (Ventila Person Eye Pro Protect Other P Respira (Specify Work/H	Partial Chemical Polyoxyethylenes (polysorbate 20; monododecanoati poly(oxy-1,2-ethat re Controls: ering Controls al protection equi otection: ive Gloves: Protective Clothing atory Equipment y Type): ygienic/Maintenar	Name orbitan Monolaurate Sorbitan, e, nediyl) derivatives) Use process enclosu levels below recomm pment: Safety glasses Compatible chemical g:Lab coat NIOSH approved res Do not take internally Facilities storing or ut shower.	No data. res, local exhaust venti ended exposure limits. -resistant gloves pirator, as conditions w /. tilizing this material sho	No data. lation, or other engineering c	No data.
900 8.2 8.2.1	5-64-5 Exposu Engined (Ventila Person Eye Pro Protect Other P Respira (Specify Work/H	Partial Chemical Polyoxyethylenes (polysorbate 20; monododecanoati poly(oxy-1,2-ethat re Controls: ering Controls al protection equi otection: ive Gloves: Protective Clothing atory Equipment y Type): ygienic/Maintenar	Name orbitan Monolaurate Sorbitan, e, nediyl) derivatives) Use process enclosu levels below recomm pment: Safety glasses Compatible chemical g:Lab coat NIOSH approved res	No data. res, local exhaust venti ended exposure limits. -resistant gloves pirator, as conditions w /. tilizing this material sho	No data. lation, or other engineering c	No data.



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).1	Informatio			1 9. Physica			5-51100		
7.1	Physical	-	sicai an	-	erties Liquid []So	lid			
	-	nce and Odor:		A clear, yellow vis		liu			
	Melting P			No data.					
	Boiling P			No data.					
	Flash Pt:			No data.					
	Evaporat			No data.					
	Explosive			LEL: No data.		UEL: No	data		
	-	essure (vs. Air o	r mm	No data.		OLL. NO	data.		
	Hg):			no dala.					
		nsity (vs. Air = 1):	No data.					
	=	Gravity (Water =	-	No data.					
	-	in Water:	•,•	No data.					
	Autoignit			No data.					
	Other Info			No dala.					
9.2				N.A.					
	Percent V	rolatile:		IN.A.					
			S	ection 10. S	tability and	Reactiv	vity		
0.1	Reactivity	y:	No dat	a available.					
0.2	Stability:		Unstab	le [] Stable	[X]				
0.3	Stability I	Note(s):	Stable	if stored in accord	ance with inform	ation listed o	on the produc	t insert.	
	Polymeria	zation:	Will oc	cur [] Will no	ot occur [X]				
0.4	Condition	ns To Avoid:	No dat	a available.					
0.5	Incompat	ibility - Materials	s strong	oxidizing agents					
	To Avoid	:							
0.6	Hazardou	IS	carbon	dioxide					
	Decompo	osition Or	carbon	monoxide					
	Byproduc	cts:							
			Se	ction 11. To	xicological	Informa	ation		
1.1	Informati	on on		kicological effects	•			tudied.	
		gical Effects:		0	·		5,		
	•	-	Polyso	rbate 20 - Toxicity	Data: Oral LD50	(rat): 36.7 r	nl/kg; Oral LD	50 (hamster):	18 ml/kg; Ora
				mouse): >33 g/kg;					-
	Chronic 1	Foxicological	Polyso	rbate 20 - Investig	ated as a tumorio	gen and rep	roductive effe	ctor.	
	Effects:	-	Only se	elect Registry of T	oxic Effects of Ch	nemical Sub	stances (RTE	CS) data is pre	esented here
			See ac	tual entry in RTEC	S for complete in	nformation.			
			Polyso	rbate 20 RTECS N	umber: TR7400	000			
Carcir	nogenicity	:	NTP? I	No IARC Mor	nographs? No	OSHA Re	gulated? No		
CAS	#	Hazardous Com	ponent	s (Chemical Nam	e)	NTP	IARC	ACGIH	OSHA
900	5-64-5	Polyoxyethylenes	sorbitan	Monolaurate (poly	sorbate 20;	n.a.	n.a.	n.a.	n.a.
			odecano	ate, poly(oxy-1,2-	ethanediyl)				
		derivatives)							



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			Section 12. Ecolo	ogical Informa	ation	
12.1	Toxicity	:	Avoid release into the environm	ent.		
			Runoff from fire control or dilution	on water may cause	pollution.	
12.2	Persiste	nce and	No data available.			
	Degrada	ıbility:				
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.			
	assessn	nent:				
			Section 13. Dispos	sal Considera	ations	
13.1	Waste D	isposal Method:	Dispose in accordance with loca	al, state, and federal	regulations.	
			Section 14. Tran	sport Informa	ation	
14.1	LAND T	RANSPORT (US	DOT):			
D	OT Prope	r Shipping Name	: Not dangerous goods.			
_	OT Hazar					
	N/NA Nur	nber:				
14.1	LAND T	RANSPORT (Eur	opean ADR/RID):			
		hipping Name:	Not dangerous goods.			
-	N Numbe					
14.3		ss. Ansport (ICAO/	IATA).			
		Shipping Name:	Not dangerous goods.			
	tional Trai		Transport in accordance with lo	cal state and feder	al regulations	
	mation:	isport			a regulations.	
			Section 15. Regu	latory Inform	ation	
		uporfund Amondm	nents and Reauthorization Act	•		
CAS			ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
	5-64-5		sorbitan Monolaurate	No	No	No
			Sorbitan, monododecanoate,			
		poly(oxy-1,2-etha	anediyl) derivatives)			
CAS	#	Hazardous Com	ponents (Chemical Name)	Other US EPA or	State Lists	
900	5-64-5		sorbitan Monolaurate	· ·	No; CWA NPDES:	No; TSCA: Yes -
		- · ·	Sorbitan, monododecanoate,	Inventory; CA PI	ROP.65: No	
		poly(oxy-1,2-etha	anediyl) derivatives)			



Revision: 01/09/2015 Supersedes Revision: 12/09/2013

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:	01/09/2015
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.



SAFETY DATA SHEET EIA Tracer Dye

Revision: 01/09/2015 Supersedes Revision: 04/02/2014

		accor	ding to Regulation (EC) No. 190	7/2006 as amended b	oy (EC) No. 1272/20	08
		Section 1. Id	lentification of the Substar	nce/Mixture and of	the Company/U	Indertaking
1.1	Product Product		400040 EIA Tracer Dye			
1.2	Relevan	t identified uses of	the substance or mixture a	and uses advised a	against:	
	Releva	ant identified uses:	For research use only, ne	ot for human or vete	erinary use.	
1.3	Details of	of the Supplier of th	e Safety Data Sheet:			
		any Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	bany		
		ite address:	www.caymanchem.com		4 (70	4)074 0005
	Inform –		Cayman Chemical Comp	bany	+1 (73	4)971-3335
1.4	Emerge	ncy telephone num	ber:			
	Emerg	ency Contact:	CHEMTREC Within USA CHEMTREC Outside US		•	00)424-9300 03)527-3887
			Section 2. Ha	zards Identifi	cation	
2.2 2.2.1	Label El Labelin GHS Sig GHS Ha H316: C GHS Pr No phra GHS Re P332+3 GHS St Please	gnal Word: azard Phrases: Causes mild skin irrita ecaution Phrases: ses apply. esponse Phrases: 13: If skin irritation oc orage and Disposal refer to Section 7 for	ulation (EC) No 1272/2008 Warning tion. ccurs, get medical advice/atte Phrases: Storage and Section 13 for I	ention.	1.	
2.3		and Symptoms:	Causes mild skin irritation. Material may be irritating to t May be harmful by inhalation May cause eye or respiratory May temporarily stain skin. To the best of our knowledge	, ingestion, or skin a v system irritation.	absorption.	spiratory tract. t been thoroughly investigated.
		Sectio	on 3. Composition	/Information	on Ingredie	nts
CAS RTEC		Hazardous Compo REACH Registratio	nents (Chemical Name)/ on No.	Concentration	EC No./ EC Index No.	GHS Classification
NA NA		EIA Tracer Dye		100.0 %	NA NA	Skin Corr. 3: H316
		·				



SAFETY DATA SHEET EIA Tracer Dye

Revision: 01/09/2015 Supersedes Revision: 04/02/2014

			Section	4. First Aid Me	easures	
4.1		ption of First Aid	No data available.			
	Measu In Cas	res: e of Inhalation:	Remove to fresh air. Get immediate media	0.0	rtificial respiration or give oxy	gen by trained personnel.
	In Cas	e of Skin Contact:	-		y of water for at least 15 minu occur. Wash clothing before	
	In Cas	e of Eye Contact:	Hold eyelids apart ar and tested by medica	•	ty of water for at least 15 minu	utes. Have eyes examined
	In Cas	e of Ingestion:			n is conscious. Never give an Do NOT induce vomiting unl	
			Section 5.	. Fire Fighting	Measures	
5.1	Media			cool fire-exposed conta	, water, or dry chemical spray iners.	
5.2	Media: Flamm Hazaro	able Properties an	d No data available.			
	Flash	Pt:	No data.			
	Explos	sive Limits:	LEL: No data.	UEL:	No data.	
	Autoig	nition Pt:	No data.			
5.3	Fire Fi	ghting Instructions	-		g apparatus pressure-demane ent contact with skin and eye	
			Section 6. Ac	cidental Relea	se Measures	
6.1	Protec	tive Precautions, tive Equipment an ency Procedures:	d As conditions warra		ate ventilation. roved self-contained breathing er boots, safety goggles, and	
6.2	Enviro Precau	nmental utions:	Take steps to avoid	release into the enviro	nment, if safe to do so.	
6.3			r Contain spill and co ngTransfer to a chemi		disposal in accordance with I	ocal regulations.
			Section 7	. Handling and	d Storage	
7.1 7.2	in Han	dling:	Avoid breathing dust Avoid prolonged or r Keep container tight		s/spray.	
	in Stor	ring:	Store in accordance	with information listed	on the product insert.	
		Sec	tion 8. Exposi	ure Controls/Pe	ersonal Protection	
8.1	•	ure Parameters:		1		
CAS	#	Partial Chemical	Name	Britain EH40	France VL	Europe
	NA	EIA Tracer Dye		No data.	No data.	No data.
						Multi-region format



SAFETY DATA SHEET EIA Tracer Dye

Revision: 01/09/2015

CAS	#	Partial Chemical	Name	OSHA TWA	ACGIH TWA	Other Limits
	NA	EIA Tracer Dye		No data.	No data.	No data.
3.2	Expos	ure Controls:		Į		Į
3.2.1	Engin	eering Controls	Use process enclo	osures, local exhaust vent	ilation, or other engineering co	ontrols to control airbo
	(Venti	lation etc.):	levels below recor	mmended exposure limits.		
8.2.2	Perso	nal protection equip	oment:			
	Eye Pı	rotection:	Safety glasses			
	Protec	ctive Gloves:	Compatible chemi	ical-resistant gloves		
	Other	Protective Clothing	:Lab coat			
	Respir	ratory Equipment	NIOSH approved	respirator, as conditions w	varrant.	
	(Speci	ify Type):				
	Work/	Hygienic/Maintenan	Do not take intern	ally.		
	ce Pra	ictices:	Facilities storing o	or utilizing this material sho	ould be equipped with an eyew	vash facility and a safe
			shower.			
			Wash thoroughly a	after handling.		
			No data available.			
		S	ection 9. Ph	ysical and Chem	nical Properties	
9.1	Inform	ation on Basic Phys	ical and Chemica	I Properties		
	Physic	cal States:	[] Gas	[X]Liquid []Solid	l	
	Appea	arance and Odor:	A red solut	tion		
	Meltin	g Point:	No data.			
	Boiling	g Point:	No data.			
	Flash	Pt:	No data.			
	Evapo	oration Rate:	No data.			
	Explos	sive Limits:	LEL: No d	lata.	UEL: No data.	
	Vapor	Pressure (vs. Air o	mm No data.			
	Hg):					
	-	Density (vs. Air = 1	-			
	-	fic Gravity (Water =	-			
	Solubi	ility in Water:	No data.			
	Autoig	gnition Pt:	No data.			
9.2	Other I	Information				
	Percei	nt Volatile:	No data.			
			Section 1	10. Stability and	Reactivity	
10.1	Reacti	ivity:	No data available.			
10.2	Stabili	ity:	Unstable []	Stable [X]		
10.3	Stabili	ity Note(s):	Stable if stored in	accordance with informati	ion listed on the product inser	t.
	Polym	erization:	Will occur []	Will not occur [X]		
10.4	Condi	tions To Avoid:	No data available.			
10.5	Incom	patibility - Materials	No data available.			
	To Av	oid:				
10.6	Hazaro	dous	No data available.			
		nposition Or				
		ducts:				
						Multi-region for



SAFETY DATA SHEET EIA Tracer Dye

Multi-region format

Revision: 01/09/2015 Supersedes Revision: 04/02/2014

			Sectio	n 11. Toxic	ological Info	ormation		
1.1	Informa		The toxicolo	gical effects of thi	s product have no	t been thorough	nly studied.	
		ogical Effects:						
	nogenicit	-	NTP? No	IARC Monogra		HA Regulated?		
CAS		Hazardous Com	ponents (Ch	emical Name)	NT	P IARC		I OSHA
	NA	EIA Tracer Dye			n.a	. n.a.	n.a.	n.a.
			Sect	ion 12. Eco	logical Infor	mation		
12.1	Toxicity	/:	Avoid releas	se into the environ	iment.			
			Runoff from	fire control or dilu	ition water may ca	use pollution.		
12.2	Persiste	ence and	No data ava	ilable.				
	Degrad	ability:						
12.3		umulative	No data ava	ilable.				
	Potentia							
2.4	-	/ in Soil:	No data ava					
12.5	Results	of PBT and vPvB	No data ava	ilable.				
	assessi	ment:						
			Sectio	on 13. Dispo	osal Consid	erations		
13.1	Waste I	Disposal Method:	Dispose in a	ccordance with lo	ocal, state, and fee	leral regulations	5.	
			Sec	tion 14. Tra	nsport Infor	mation		
14.1	LAND	RANSPORT (US	DOT):					
D	OT Prope	er Shipping Name	: Not dan	igerous goods.				
	OT Haza			0 0				
U	N/NA Nu	mber:						
14.1	LAND 1	FRANSPORT (Eur	opean ADR/F	RID):				
Α	DR/RID S	Shipping Name:	Not dan	igerous goods.				
U	N Numbe	er:						
Н	azard Cla	ass:						
14.3	AIR TR	ANSPORT (ICAO/	IATA):					
IC	CAO/IATA	Shipping Name:	Not dan	gerous goods.				
	tional Tra	nsport	Transport in	accordance with	local, state, and f	ederal regulation	ns.	
Infor	mation:							
			Secti	on 15. Reg	ulatory Infor	rmation		
EPA	SARA (Si	uperfund Amendn	nents and Re	authorization Ac	t of 1986) Lists			
CAS		Hazardous Com	ponents (Ch	emical Name)	S. 302 (EHS)) S. 304 F	RQ S.	313 (TRI)
	NA	EIA Tracer Dye			No	No	No)
		1	ponents (Ch	emical Name)	Other US EP	A or State List	6	
CAS	#	Hazardous Com				DC: No; CWA N		



SAFETY DATA SHEET EIA Tracer Dye

Degulatory Information	This SDS was prepared in accordance with 20 CER 1010 1200 and Regulation (EC)
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:	01/09/2015
Additional Information About This Product:	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: 01/09/2015 Supersedes Revision: 04/02/2014

		ing to Regulation (EC) No. 1907/2006 as amended by	(EC) No. 1272/2008
	Section 1. Ide	entification of the Substance/Mixture and of the	ne Company/Undertaking
I	Product Code:	400042	
	Product Name:	EIA Antiserum Dye	
.2	Relevant identified uses of the	he substance or mixture and uses advised ag	ainst:
	Relevant identified uses:	For research use only, not for human or vetering	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 numb		
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887
		Section 2. Hazards Identific	ation
	Carcinogenicity, Category Toxic To Reproduction, Ca Label Elements: Labeling according to Regu	ntegory 2	
	Toxic To Reproduction, Ca Label Elements:	2	
2.2.1	Toxic To Reproduction, Ca Label Elements:	2 htegory 2 lation (EC) No 1272/2008 [CLP]:	
2.2.1	Toxic To Reproduction, Ca Label Elements: Labeling according to Regu	2 ategory 2	
.2.1	Toxic To Reproduction, Ca Label Elements: Labeling according to Regu GHS Signal Word:	2 ategory 2 lation (EC) No 1272/2008 [CLP]: Warning	
.2.1	Toxic To Reproduction, Ca Label Elements: Labeling according to Regu GHS Signal Word: GHS Hazard Phrases:	2 ategory 2 lation (EC) No 1272/2008 [CLP]: Warning sancer.	
.2.1	Toxic To Reproduction, Ca Label Elements: Labeling according to Regu GHS Signal Word: GHS Hazard Phrases: H351: Suspected of causing of H361: Suspected of damaging GHS Precaution Phrases:	2 attegory 2 lation (EC) No 1272/2008 [CLP]: Warning sancer. g fertility or the unborn child.	
2.2.1	Toxic To Reproduction, Ca Label Elements: Labeling according to Regu GHS Signal Word: GHS Hazard Phrases: H351: Suspected of causing of H361: Suspected of damaging GHS Precaution Phrases: P201: Obtain special instruction	2 attegory 2 lation (EC) No 1272/2008 [CLP]: Warning sancer. g fertility or the unborn child.	
2.2.1	Toxic To Reproduction, Ca Label Elements: Labeling according to Regu GHS Signal Word: GHS Hazard Phrases: H351: Suspected of causing of H361: Suspected of damaging GHS Precaution Phrases: P201: Obtain special instruction P202: Do not handle until all s	2 attegory 2 lation (EC) No 1272/2008 [CLP]: Warning sancer. 9 fertility or the unborn child. ons before use. safety precautions have been read and understoo	od.
2.2.1	Toxic To Reproduction, Ca Label Elements: Labeling according to Regu GHS Signal Word: GHS Hazard Phrases: H351: Suspected of causing of H361: Suspected of damaging GHS Precaution Phrases: P201: Obtain special instruction P202: Do not handle until all ss P281: Use personal protective	2 attegory 2 lation (EC) No 1272/2008 [CLP]: Warning sancer. 9 fertility or the unborn child. ons before use. safety precautions have been read and understoo	od.
2.2.1	Toxic To Reproduction, Ca Label Elements: Labeling according to Regu GHS Signal Word: GHS Hazard Phrases: H351: Suspected of causing of H361: Suspected of damaging GHS Precaution Phrases: P201: Obtain special instruction P202: Do not handle until all s P281: Use personal protective GHS Response Phrases:	2 ategory 2 lation (EC) No 1272/2008 [CLP]: Warning sancer. g fertility or the unborn child. ons before use. safety precautions have been read and understood a equipment as required.	od.
2.2.1	Toxic To Reproduction, Ca Label Elements: Labeling according to Regu GHS Signal Word: GHS Hazard Phrases: H351: Suspected of causing of H361: Suspected of damaging GHS Precaution Phrases: P201: Obtain special instruction P202: Do not handle until all s P281: Use personal protective GHS Response Phrases:	2 attegory 2 lation (EC) No 1272/2008 [CLP]: Warning sancer. g fertility or the unborn child. ons before use. safety precautions have been read and understoo e equipment as required. cerned: Get medical attention/advice.	od.



2.3	man	EIA	Antiserum Dy	ve	Revision: 01/09/2015		
2.3					Supersedes Revision: 04/02/2014		
	Adverse Human Healt Effects and Symptoms	 May be harmful by inhalation May cause eye, skin, or resp Suspected of causing cance Suspected of damaging fertil 	n, ingestion, or skin a piratory system irritat r. lity or the unborn chi	absorption. ion. Id.	spiratory tract. t been thoroughly investigated.		
	Se	ection 3. Composition	/Information	on Ingredie	nts		
CAS # RTEC		mponents (Chemical Name)/ tration No.	Concentration	EC No./ EC Index No.	GHS Classification		
NA NA	EIA Antiserum D	ye	100.0 %	NA NA	Carcinogen 1B: H350 Toxic Repro. 2: H361		
		Section 4. Fi	rst Aid Meas	ures			
.1	Description of First Ai Measures:	d No data available.					
	In Case of Inhalation:	Remove to fresh air. If not broke the second		al respiration or gi	ve oxygen by trained personne		
	In Case of Skin Contact: Immediately wash ski clothing. Get medical				5 minutes. Remove contaminat before reuse.		
	In Case of Eye Contac		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 p unconscious person. Get me medical personnel.	-	-	ive anything by mouth to an ng unless directed to do so by		
		Section 5. Fire	Fighting Me	asures			
5.1	Suitable Extinguishing Media:	Use alcohol-resistant foam, o Use water spray to cool fire-o		-	spray.		
	Unsuitable Extinguish Media:	ing A solid water stream may be	inefficient.				
5.2	Flammable Properties Hazards:	andNo data available.					
	Flash Pt: Explosive Limits:	No data. LEL: No data.	UEL: No da	ata.			
	Autoignition Pt:	No data.					



Revision: 01/09/2015 Supersedes Revision: 04/02/2014

Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or resp Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves Precautions: 3.3 Methods and Material For Contain spill and collect, as appropriate. Containment and CleaningTransfer to a chemical waste container for disposal in accordance with local regulations. Up: Section 7. Handling and Storage 7.1 Precautions To Be Taken Avoid breathing dust/tume/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 NA EIA Antiserum Dye No data. No data. No data. CAS # Partial Chemical Name OSHA TWA ACGIH TWA Other Lim NA EIA Antiserum Dye No data. No data. No data. 2.2 Presonal protection equipment: 8.2.2 Exposure Controls: 8.2.1 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control a (Ventilation etc.): levels below recommended exposure limits. 8.2.2 Personal protection equipment: Eye Protective Clorking: Lab coal 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 shower. Wash thoroughly after handling.										
Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or resp Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves Precautions: 1.2 Environmental Take steps to avoid release into the environment, if safe to do so. Precautions: 1.3 Methods and Material For Contain spill and collect, as appropriate. Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations. Up: Section 7. Handling and Storage 7.1 Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray. in Handling: Avoid prolonged or repeated exposure. 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 1.1 Exposure Parameters: CAS # Partial Chemical Name Britain EH40 France VL Europe NA EIA Antiserum Dye No data. No data. No data. CAS # Partial Chemical Name OSHA TWA ACGH TWA Other Lim NA EIA Antiserum Dye No data. No data. A No data. 2.2 Prosonal protection equipment: 2.3.2 Exposure Controls: 2.3.2 Exposure Controls: 2.3.2 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/Hygleinic/Maintenan Do not take internally. ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash facility and a shower. Wash thoroughly after handling.				Section 6. Ac	cidental Releas	e Measures				
Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber glover 5.2 Environmental Take steps to avoid release into the environment, if safe to do so. Precautions: Section 7. Handling and Storage Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations. up: Section 7. Handling and Storage 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. Avoid prolonged or repeated exposure. France VL Europe 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 Britain EH40 France VL Europe NA EIA Antiserum Dye No data. No data. No data. NA EIA Antiserum Dye No data. No data. No data. 8.2 Exposure Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control a (Ventilation etc.): levels below recommended exposure limits. 8.2.1	6.1									
6.2 Environmental Take steps to avoid release into the environment, if safe to do so. Precautions: 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 Repeated exposure NA Election 8. Exposure Controls/Personal Protection 8.1 Section 8. Exposure Controls/Personal Protection 8.1 Exposure Parameters: CAS # Partial Chemical Name Britain EH40 France VL Europe NA EIA Antiserum Dye No data. No data. NA EIA Antiserum Dye No data. No data. Resposure Controls 8.2 Exposure Controls Resposure Controls Bartiai EH40 France VL Europe NA<		Protect	ive Equipment ar	d As conditions warran	it, wear a NIOSH appro	ved self-contained breathing	apparatus, or respira			
Precautions: 6.3 Methods and Material For Contain spill and collect, as appropriate. Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations. Up: Section 7. Handling and Storage 7.1 Precautions To Be Taken 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 NA EIA Antiserum Dye No data. No data. No data. RAS # Partial Chemical Name OSHA TWA ACGH TWA Other Lim NA EIA Antiserum Dye No data. No data. No data. RAS # Partial Chemical Name OSHA TWA ACGH TWA Other Lim NA EIA Antiserum Dye No data. No data. No data. Resposure Controls: Base Controls: Base: Compartible chemical-resistant gloves Other Protection: Safety glasses Protective Glo		Emerge	ency Procedures:	and appropriate pers	onal protection (rubber	boots, safety goggles, and h	eavy rubber gloves).			
 6.3 Methods and Material For Contain spill and collect, as appropriate. Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations. Up: Section 7. Handling and Storage 7.1 Precautions To Be Taken 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 NA EIA Antiserum Dye No data. No data. No data. CAS # Partial Chemical Name OSHA TWA ACGIH TWA Other Lim NA EIA Antiserum Dye No data. No data. No data. 8.2 Exposure Controls: 8.2.1 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control a (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. ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash facility and a shower. Wash thoroughly after handling. 	6.2	Enviror	imental	Take steps to avoid r	release into the environ	ment, if safe to do so.				
Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations. Up: Section 7. Handling and Storage 7.1 Precautions To Be Taken 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 NA EIA Antiserum Dye No data. No data. No data. Na data. No data. No data. No data. No data. No data. Na data. No data. No data. No data. No data. No data. Na data. No data. No data. No data. No data. Na data gatery controls: B.2.1 Engineering Controls: Set of the process enclosures, local exhaust ventilation, or other engineering controls to control a (Ventilation etc.): Levels below recommended exposure limits. 8.2.2 Personal protection Golyment: Eye Protection: Safety glasses P		Precaut	tions:							
Up: 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 NA EIA Antiserum Dye No data. No data. No data. NA EIA Antiserum Dye No data. No data. No data. NA EIA Antiserum Dye No data. No data. No data. NA EIA Antiserum Dye No data. No data. No data. No data. No data. No data. No data. No data. No data. No data. No data. No data. No data. No data. No data. No data. No data. No data. No data. No data.<	6.3	Method	s and Material Fo	r Contain spill and coll	ect, as appropriate.					
Section 7. Handling and Storage 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 NA EIA Antiserum Dye No data. No data. No data. NA EIA Antiserum Dye No data. No data. No data. No data. NA EIA Antiserum Dye No data. No data. No data. No data. NA EIA Antiserum Dye No data. No data. No data. No data. No data. No data. Respirator Controls: Bate protection equipment: Eye Protection: Safety glasses Protective Clothing:Lab coat Respiratory Equipment NIOSH approved respirator, as conditions warrant. (Specify Type): Work/Hygienic/Maintenan Do not take internally.		-								
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8.2 Exposure Controls: 8.2.1 Engineering Controls (Ventilation etc.): Use process enclosures, local exhaust ventilation, or other engineering controls to control a 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 facility and a shower. Wash thoroughly after handling.	CAS	#	Partial Chemical Name		OSHA TWA	ACGIH TWA	Other Limits			
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Eye Protection:Safety glassesProtective Gloves:Compatible chemical-resistant glovesOther Protective Clothing: Lab coatNIOSH approved respirator, as conditions warrant.Respiratory EquipmentNIOSH approved respirator, as conditions warrant.(Specify Type):Do not take internally.Work/Hygienic/MaintenanDo not take internally.Facilities storing or utilizing this material should be equipped with an eyewash facility and a shower. Wash thoroughly after handling.		(Ventila	ition etc.):	levels below recomm	ended exposure limits.					
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 facility and a shower. Wash thoroughly after handling.	8.2.2	Person	al protection equ	ipment:						
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 facility and a shower. Wash thoroughly after handling.		Eye Pro	otection:	Safety glasses						
Respiratory EquipmentNIOSH approved respirator, as conditions warrant.(Specify Type):Do not take internally.Work/Hygienic/MaintenanDo not take internally.ce Practices:Facilities storing or utilizing this material should be equipped with an eyewash facility and a shower.Wash thoroughly after handling.		Protect	ive Gloves:	Compatible chemical	-resistant gloves					
(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 shower. Wash thoroughly after handling.		Other P								
Work/Hygienic/Maintenan Do not take internally. ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash facility and a shower. Wash thoroughly after handling.			rotective Clothin	g:Lab coat	J. J					
ce Practices:Facilities storing or utilizing this material should be equipped with an eyewash facility and a shower. Wash thoroughly after handling.				-	-	arrant.				
shower. Wash thoroughly after handling.		Respira	atory Equipment	-	-	arrant.				
Wash thoroughly after handling.		Respira (Specify	atory Equipment y Type):	NIOSH approved res	pirator, as conditions wa	arrant.				
		Respira (Specif Work/H	atory Equipment y Type): ygienic/Maintena	NIOSH approved res	pirator, as conditions wa		wash facility and a saf			
No data available		Respira (Specif Work/H	atory Equipment y Type): ygienic/Maintena	NIOSH approved res n Do not take internally Facilities storing or ut shower.	pirator, as conditions wa		wash facility and a saf			
		Respira (Specif Work/H	atory Equipment y Type): ygienic/Maintena	NIOSH approved res n Do not take internally Facilities storing or ut shower.	pirator, as conditions wa		wash facility and a saf			
		Respira (Specif Work/H	atory Equipment y Type): ygienic/Maintena	NIOSH approved res n Do not take internally Facilities storing or ut shower.	pirator, as conditions wa		wash facility and a sa			
		Respira (Specif Work/H	atory Equipment y Type): ygienic/Maintena	NIOSH approved responses of the second state o	pirator, as conditions wa		wash facility and a saf			
		Respira (Specif Work/H	atory Equipment y Type): ygienic/Maintena	NIOSH approved responses of the second state o	pirator, as conditions wa		wash facility and a saf			
		Respira (Specif Work/H	atory Equipment y Type): ygienic/Maintena	NIOSH approved responses of the second state o	pirator, as conditions wa		wash facility and a saf			
		Respira (Specif Work/H	atory Equipment y Type): ygienic/Maintena	NIOSH approved responses of the second state o	pirator, as conditions wa		wash facility and a saf			
		Respira (Specif Work/H	atory Equipment y Type): ygienic/Maintena	NIOSH approved responses of the second state o	pirator, as conditions wa		wash facility and a saf			
		Respira (Specif Work/H	atory Equipment y Type): ygienic/Maintena	NIOSH approved responses of the second state o	pirator, as conditions wa		wash facility and a saf			
		Respira (Specif Work/H	atory Equipment y Type): ygienic/Maintena	NIOSH approved responses of the second state o	pirator, as conditions wa		wash facility and a saf			
		Respira (Specif Work/H	atory Equipment y Type): ygienic/Maintena	NIOSH approved responses of the second state o	pirator, as conditions wa		wash facility and a saf			
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		Respira (Specif Work/H	atory Equipment y Type): ygienic/Maintena	NIOSH approved responses of the second state o	pirator, as conditions wa		wash facility and a saf			



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9.1	Information			Physical a			575100		
9.1	Physical Sta	-		-		id			
	Appearance			ue solution					
	Melting Poi		No d						
	Boiling Poir		No d						
	Flash Pt:		data.						
	Evaporation	n Rate:	No d	data.					
	Explosive L		LEL:	: No data.		UEL: No	o data.		
	-	sure (vs. Air or	mm Nod	data.					
	Hg):								
	Vapor Dens	sity (vs. Air = 1)): No d	data.					
	Specific Gra	avity (Water = ²	1): No d	data.					
	Solubility in	Water:	No d	data.					
	Autoignitio	n Pt:	No d	data.					
9.2	Other Inform	nation							
	Percent Vol	atile:	No d	data.					
			Secti	ion 10. Stat	bility and	Reactiv	vity		
10.1	Reactivity:		No data ava				,		
10.2	Stability:	-							
10.3	Stability Note(s): Stable if stored in accordance with information listed on the product insert.								
	Polymerizat	tion:	Will occur [] Will not oc	cur [X]				
10.4	Conditions	Conditions To Avoid: No data available.							
10.5	Incompatibi	ility - Materials	strong oxidiz	zing agents					
	To Avoid:								
10.6	Hazardous		No data ava	ailable.					
	Decomposi	tion Or							
	Byproducts	\$I							
			Sectio	on 11. Toxic	ological	Informa	ation		
11.1	Information	on	The toxicolo	ogical effects of th	is product ha	ve not beer	n thoroughly s	tudied.	
	Toxicological Effects:								
	Chronic To:	xicological	Contains a component that has been investigated as a carcinogen.						
	Effects:								
	Carcinogen	-	Contains a component that has been reported to be probably carcinogenic based on its IARC,						
	Information	12	OSHA, ACO	GIH, NTP, or EPA	classification).			
Carci	nogenicity:		NTP? No	IARC Monogra	aphs? Yes	OSHA Re	egulated? No		
CAS		azardous Comp	-	emical Name)		NTP	IARC	ACGIH	OSHA
	NA EL	A Antiserum Dy	-			n.a.	n.a.		n.a.



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use. Users should make their own investigations to determine the suitability of the information for their particular purposes.



Revision: 03/18/2015 Supersedes Revision: 01/09/2015

			Supersedes Revision: 01/09/201					
	ассо	rding to Regulation (EC) No. 1907/2006 as amended by ((EC) No. 1272/2008					
	Section 1. Id	dentification of the Substance/Mixture and of th	ne Company/Undertaking					
.1	Product Code:	400050						
	Product Name:	Ellman's Reagent						
.2	Relevant identified uses of	the substance or mixture and uses advised aga	ainst:					
	Relevant identified uses:	For research use only, not for human or vetering	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 num							
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887					
		Section 2. Hazards Identifica	ation					
.1	Classification of the Substa	ance or Mixture:						
 .1.1		o Regulation (EC) No 1272/2008 [CLP]:						
	Acute Toxicity: Oral, Cate							
	Acute Toxicity: Skin, Cat							
	Skin Corrosion/Irritation,							
	Serious Eye Damage/Eye							
.2	Label Elements:							
.2.1		ulation (EC) No 1272/2008 [CLP]:						
	24E							
	GHS Signal Word:	Danger						
	GHS Hazard Phrases:							
	H301: Toxic if swallowed.							
	H311: Toxic in contact with	skin.						
	H315: Causes skin irritation	n.						
	H319: Causes serious eye	irritation.						
	GHS Precaution Phrases	:						
	P264: Wash {hands} thoro	ughly after handling.						
	P280: Wear {protective glo	ves/protective clothing/eye protection/face protection	on}.					
	GHS Response Phrases:							
		ED: Immediately call a POISON CENTER or doctor. ash with plenty of soap and water.	/physician.					
		S: Rinse cautiously with water for several minutes.	Remove contact lenses, if present and easy					
	to do. Continue rinsing.							
		ITER or doctor/physician if you feel unwell.						
	P330: Rinse mouth.							
	P332+313: If skin irritation	occurs, get medical advice/attention.						



P337+313: If eye irritation persists, get medical advice/attention. P361+364: Take off immediately all contaminated clothing and wash it before reuse. P362+364: Take off contaminated clothing and wash it before reuse.

GHS Storage and Disposal Phrases:

Please refer to Section 7 for Storage and Section 13 for Disposal information.

2.3 Adverse Human Health Causes skin irritation.

Effects and Symptoms:Causes serious eye irritation.
Material may be irritating to the mucous membranes and upper respiratory tract.
May be harmful by inhalation.
May cause eye, skin, or respiratory system irritation.
Toxic if swallowed.
Toxic in contact with skin.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Section 3. Composition/Information on Ingredients

CAS # / RTECS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
69-78-3 DG9650000	DTNB	1.0 -5.0 %	200-714-4 NA	Skin Corr. 2: H315 Eye Damage 2A: H319 STOT (SE) 3: H335 H336
1866-15-5 FZ9865000	Acetylthiocholine iodide	1.0 -5.0 %	217-474-1 NA	Acute Tox.(D) 3: H311 Acute Tox.(O) 3: H301 Skin Corr. 2: H315 Eye Damage 2A: H319 STOT (SE) 3: H335 H336
7647-14-5 VZ4725000	Sodium chloride	5.0 -10.0 %	231-598-3 NA	No data available.
7758-11-4 TC5580000	Potassium phosphate, dibasic	45.0 -55.0 %	231-834-5 NA	No data available.
7778-77-0 TC6615500	Potassium phosphate, Monobasic	25.0 -48.0 %	231-913-4 NA	No data available.

Section 4. First Aid Measures

4.1	Description of First Aid Measures:	No data available.
	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.
4.2	Important Symptoms and	Ingestion of large amounts can cause abdominal pain, lowered blood pressure, nausea, and
	Effects, Both Acute and	vomiting.
	Delayed:	



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		Section !	Fire Fighting I	Measures					
5.1 Su	itable Extinguishing	le Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.							
Ме	dia:	Use water spray to cool fire-exposed containers.							
	suitable Extinguishing	A solid water strea	am may be inefficient.						
Media: 5.2 Flammable Properties andNo data available.									
	-	No data available.							
	zards: Ish Pt:								
	plosive Limits:	LEL: No data.		No data.					
	toignition Pt:	No data.	UEL. I	NO Udid.					
	-	Gighting Instructions: 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. A	Accidental Releas	se Measures					
	otective Precautions,	•	breathing dust, and provid	•					
				oved self-contained breathing					
Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber g									
	vironmental ecautions:	Take steps to avo	id release into the enviror	nment, if safe to do so.					
		Contain spill and	collect as annronriate						
 6.3 Methods and Material For Contain spill and collect, as appropriate. Containment and CleaningTransfer to a chemical waste container for disposal in accordance with local regulations. Up: 									
							•		
			7. Handling and						
		-	ust/fume/gas/mist/vapours	s/spray.					
	Handling:		r repeated exposure.						
	ecautions To Be Taken Storing:		ntly closed. ce with information listed c	on the product insert					
	her Precautions:	Protect from light.							
	Sect	ion 8. Expos	sure Controls/Pe	rsonal Protection					
8.1 Exp	oosure Parameters:								
CAS #	Partial Chemical	Name	Britain EH40	France VL	Europe				
69-78-3	3 DTNB		No data.	No data.	No data.				
1866-15	-5 Acetylthiocholine i	Acetylthiocholine iodide		No data.	No data.				
7647-14	-5 Sodium chloride		No data.	No data.	No data.				
7758-11	-4 Potassium phosph	iate, dibasic	No data.	No data.	No data.				
7778-77	-0 Potassium phosph	ate, Monobasic	No data.	No data.	No data.				
CAS #	Partial Chemical	Name	OSHA TWA	ACGIH TWA	Other Limits				
69-78-3	3 DTNB		No data.	No data.	No data.				
1866-15	-5 Acetylthiocholine i	odide	No data.	No data.	No data.				
7647-14	-5 Sodium chloride		No data.	No data.	No data.				
	A Determine where h		No data.	No data.	Nia data				
7758-11	-4 Potassium phosph	nate, dibasic	No data.	NO Gala.	No data.				



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	HEMICAL	Supersedes Revision: 01/09/2015					
8.2	Exposure Controls:						
8.2.1	Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne					
	(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/Maintena	n 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.					
	C	Section 9. Physical and Chemical Properties					
<u> </u>		· · ·					
9.1	-	vsical and Chemical Properties					
	Physical States:	[]Gas []Liquid [X]Solid					
	Appearance and Odor:	A lyophilized powder					
	Melting Point:	No data.					
	Boiling Point:	No data.					
	Flash Pt:	No data.					
	Evaporation Rate:	No data.					
	Explosive Limits:	LEL: No data. UEL: No data.					
	Vapor Pressure (vs. Air o	or mm No data.					
	Hg):						
	Vapor Density (vs. Air =	1): No data.					
	Specific Gravity (Water =	= 1): No data.					
	Solubility in Water:	No data.					
	Autoignition Pt:	No data.					
9.2	Other Information						
	Percent Volatile:	No data.					
		Section 10. Stability and Reactivity					
		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 occur [] Will not occur [X]					
10.4	Conditions To Avoid:	No data available.					
10.5	Incompatibility - Materia						
	To Avoid:	strong oxidizing agents					
10.6	Hazardous	carbon dioxide					
	Decomposition Or	carbon monoxide					
	Byproducts:	hydrogen chloride gas					
		hydrogen iodide					
		nitrogen oxides					
		phosphorus oxides					
		potassium oxides					
		Multi-region forma					



Multi-region format

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			sodium oxides		Si	-		
			sulfur oxides					
			Section 11. Toxicological	Informa	ation			
11.1	Informa	tion on	The toxicological effects of this product ha			udied		
		ogical Effects:			r thoroughly of			
			Acetylthiocholine iodide - Toxicity Data: C mg/kg;	Dral LD50 (ra	t): 100 mg/kg;	Skin LD50 (gu	iinea pig): 50	
			Potassium phosphate, monobasic - Toxic (rabbit): >4,640 mg/kg;	city Data: Ora	al LDLO (rat): 4	1,640 mg/kg; S	skin LD50	
		Toxicological	Only select Registry of Toxic Effects of C		stances (RTE	CS) data is pre	sented here	
	Effects:		See actual entry in RTECS for complete i					
			Acetylthiocholine iodide RTECS Number: Potassium phosphate, monobasic RTEC					
Carcinogenicity:			NTP? No IARC Monographs? No		egulated? No			
CAS		-	nponents (Chemical Name)	NTP		ACGIH	OSHA	
	-78-3	DTNB	· · · · · · · · · · · · · · · · · · ·	n.a.	n.a.	n.a.	n.a.	
186	6-15-5	Acetylthiocholine	e iodide	n.a.	n.a.	n.a.	n.a.	
764	7-14-5	Sodium chloride		n.a.	n.a.	n.a.	n.a.	
775	8-11-4	Potassium phos	phate, dibasic	n.a.	n.a.	n.a.	n.a.	
777	8-77-0	Potassium phos	phate, Monobasic	n.a.	n.a.	n.a.	n.a.	
		4	Section 12. Ecological I	nformati	ion	ł	-	
12.1	Toxicity:		Avoid release into the environment.					
			Runoff from fire control or dilution water r	nay cause po	ollution.			
12.2	Persiste	ence and	No data available.					
	Degrada	ability:						
12.3		Imulative	No data available.					
	Potentia							
12.4	Mobility		No data available.					
40 -			B No data available.					
12.5	assessment:		No data available.					
12.5 12.6		dverse effects:	No data available.					
		dverse effects:		neidarati	one			
	Other a		No data available. Section 13. Disposal Col Dispose in accordance with local, state, a					

Cayman

SAFETY DATA SHEET **Ellman's Reagent**

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				Capolog				
		Section 14. Trans	sport Informa	tion				
14.1 LAND T	RANSPORT (US	DOT):						
DOT Prope	er Shipping Name	: Not dangerous goods.						
DOT Hazar	d Class:							
UN/NA Nur	nber:							
14.1 LAND TRANSPORT (European ADR/RID):								
ADR/RID S	hipping Name:	Not dangerous goods.						
UN Number:								
Hazard Cla	ISS:							
14.3 AIR TR	ANSPORT (ICAO/	IATA):						
	Shipping Name:	Not dangerous goods.						
Additional Tra	nsport	Transport in accordance with lo	cal, state, and federa	al regulations.				
Information:								
		Section 15. Regul	atory Informa	tion				
EPA SARA (Sı	perfund Amendm	nents and Reauthorization Act of	of 1986) Lists					
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)			
69-78-3	DTNB		No	No	No			
1866-15-5	Acetylthiocholine iodide		No	No	No			
7647-14-5	Sodium chloride		No	No	No			
7758-11-4	Potassium phosp	ohate, dibasic	No	No	No			
7778-77-0	Potassium phosp	ohate, Monobasic	No	No	No			
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or	State Lists				
69-78-3	DTNB		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No					
1866-15-5	Acetylthiocholine	iodide	CAA HAP,ODC: No; CWA NPDES: No; TS Inventory; CA PROP.65: No		o; TSCA: Yes -			
7647-14-5	Sodium chloride		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes -					
			Inventory; CA PR					
7758-11-4	Potassium phosp	hate, dibasic	CAA HAP,ODC: N Inventory; CA PR	lo; CWA NPDES: No OP.65: No	o; TSCA: Yes -			
7778-77-0	Potassium phosp	hate, Monobasic	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No					
Regulatory Info Statement:	ormation	This SDS was prepared in acco No.1272/2008.	cordance with 29 CFR 1910.1200 and Regulation (EC)					
		Section 16. Oth	er Informatio	n				
Revision Date:		03/18/2015						
Additional Info	rmation About	No data available.						
This Product:								
	ey or Disclaimer:	DISCLAIMER: This information currently available to us. Howev express or implied, with respect use. Users should make their o their particular purposes.	er, we make no warr to such information,	anty of merchantabil and we assume no I	ity or any other warranty, iability resulting from its			



SAFETY DATA SHEET EIA Buffer Concentrate (10X)

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: 400060 Product Name: EIA Buffer Concentrate (10X) 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. Elisworth Rd. Ann Arbor, MI 48108 Web site address: www.caymanchem.com Information: Cayman Chemical Company +1180 E. Elisworth Rd. Ann Arbor, MI 48108 Web site address: www.caymanchem.com Information: Cayman Chemical Company +1180 E. Elisworth Rd. +1 (734)971-3335 1.4 Emergency telephone number: Emergency telephone number: Emergency telephone number: 2.1 Classification of the Substance or Mixture: 2.1 Classification of the Substance or Mixture: 2.1 Classification according to Regulation (EC) No	uman	EIA Duffer Concentrate (TOA) Revision: 01/09/2015
Section 1. Identification of the Substance/Mixture and of the Company/Undertaking 1.1 Product Code: 400060 Product Name: EIA Buffer Concentrate (10X) 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. Elisworth Rd. Ann Arbor, MI 48108 Web site address: www.caymanchem.com Information: Cayman Chemical Company 1180 E. Elisworth 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 telephone number: Emergency telephone number: Emergency Contact: CHEMTREC Within USA and Canada: +1 (703)527-3887 Section 2. Hazards Identification 2.1 Classification of the Substance or Mixture: 2.1 Classification go Regulation (EC) No 1272/2008 [CLP]: Acute Toxicity: Oral, Category 3 2.2 Label Elements: 2.1 Labelling a	CHIMICAL	Supersedes Revision: 04/02/2014
1.1 Product Code: 400060 Product Name: EIA Buffer Concentrate (10X) 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 2.1 Classification of the Substance or Mixture: 2.1 Classification according to Regulation (EC) No 1272/2008 [CLP]: Acute Toxicity: Oral, Category 3 2.2 Label Elements: 2.3 Labeling according to Regulation (EC) No 1272/2008 [CLP]: Acute Toxicity: Oral, Category 3 Category GHS Signal Word: Danger GHS Alezard Phrases: H301: Toxic if swallowed. GHS Precaution Phrases: P264: Wash (hands) thoroughly after handling. GHS Response Phrases: P264: Wash (hands) thoroughly after hand		
Product Name: EIA Buffer Concentrate (10X) 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: 2.1 Classification of the Substance or Mixture: 2.1 2.1 Classification of the Substance or Mixture: 2.1 Classification of the Substance or Mixture: 2.1 Label Elements: 2.2 Labeling according to Regulation (EC) No 1272/2008 [CLP]: Acute Toxicity: Oral, Category 3 2.2 Labeling according to Regulation (EC) No 1272/2008 [CLP]: GHS Signal Word: Danger GHS Nazard Phrases: H301: Toxic if swallowed. GHS Response Phrases: P264: Wash (hands) thoroughly after handling. GHS Response Phrases: P264: Wash (hands) thoroughly after handling.		
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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 (703)527-3887 Company Name: CHEMTREC Within USA and Canada: +1 (703)527-3887 Company Contact: CHEMTREC Within 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 3 2.2 Label Elements: 2.1.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]: Web Web CHS Signal Word: Danger GHS Hazard Phrases: H301: Toxic if swallowed. GHS Precaution Phrases: P264: Wash (hands) thoroughly after handling. GHS Response Phrases:	Relevant identified uses	e substance or mixture and uses advised against:
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: .1.4 Emergency Contact: CHEMTREC Within USA and Canada: +1 (703)527-3887 .1.4 Emergency Contact: CHEMTREC Outside USA and Canada: +1 (703)527-3887 .1.5 Section 2. Hazards Identification .1.1 Classification of the Substance or Mixture: .1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]: Acute Toxicity: Oral, Category 3 .2.2 Label Elements: .2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]:	Relevant identified use	For research use only, not for human or veterinary use.
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 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 according to Regulation (EC) No 1272/2008 [CLP]: Acute Toxicity: Oral, Category 3 2.2 Label Elements: 2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]: GHS Signal Word: Danger GHS Hazard Phrases: H301: Toxic if swallowed. GHS Precaution Phrases: P264: Wash (hands) thoroughly after handling. GHS Response Phrases: Handling.	Details of the Supplier o	Safety Data Sheet:
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 3 2.2 Label Elements: 2.1.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]: GHS Signal Word: Danger GHS Hazard Phrases: H301: Toxic if swallowed. GHS Precaution Phrases: P264: Wash (hands) thoroughly after handling. GHS Response Phrases:	Company Name:	1180 E. Ellsworth Rd.
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 3 2.2 Label Elements: 2.1.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]: Acute Toxicity: Oral, Category 3 2.2 Label Elements: 2.1.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]: Acute Toxicity: Oral, Category 3 CHEMTREC No 1272/2008 [CLP]: Acute Toxicity: Oral, Category 4 CHEMTREC No 1272/2008 [CLP]: Acute Toxicity: Oral, Category 3 CHEMTREC No 1272/2008 [CLP]: Acute Toxicity: Oral, Category 4 Babel Elements: CHEMTREC No 1272/2008 [CLP]: Acute Toxic if swallowed. GHS Precaution Phrases: P264: Wash (hands) thoroughly after handling. GHS Response Phrases:	Web site address:	
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 3 2.2 Label Elements: 2.1.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]: Output Danger GHS Signal Word: Danger GHS Hazard Phrases: H301: Toxic if swallowed. GHS Precaution Phrases: P264: Wash (hands) thoroughly after handling. GHS Response Phrases: E	Information:	Cayman Chemical Company +1 (734)971-3335
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 3 2.2 Label Elements: 2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]: GHS Signal Word: Danger GHS Nazard Phrases: H301: Toxic if swallowed. GHS Precaution Phrases: P264: Wash {hands} thoroughly after handling. GHS Response Phrases:	Emergency telephone n	۲:
 2.1 Classification of the Substance or Mixture: 2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]: Acute Toxicity: Oral, Category 3 2.2 Label Elements: 2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]: GHS Signal Word: Danger GHS Hazard Phrases: H301: Toxic if swallowed. GHS Precaution Phrases: P264: Wash {hands} thoroughly after handling. GHS Response Phrases: 	Emergency Contact:	
 2.1 Classification of the Substance or Mixture: 2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]: Acute Toxicity: Oral, Category 3 2.2 Label Elements: 2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]: GHS Signal Word: Danger GHS Hazard Phrases: H301: Toxic if swallowed. GHS Precaution Phrases: P264: Wash {hands} thoroughly after handling. GHS Response Phrases: 		Section 2. Hazards Identification
GHS Hazard Phrases: H301: Toxic if swallowed. GHS Precaution Phrases: P264: Wash {hands} thoroughly after handling. GHS Response Phrases:		
H301: Toxic if swallowed. GHS Precaution Phrases: P264: Wash {hands} thoroughly after handling. GHS Response Phrases:	GHS Signal Word:	Danger
GHS Precaution Phrases: P264: Wash {hands} thoroughly after handling. GHS Response Phrases:		
P264: Wash {hands} thoroughly after handling. GHS Response Phrases:		
GHS Response Phrases:		v after handling
		, and mananing.
P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P330: Rinse mouth.	P301+310: IF SWALLOV	Immediately call a POISON CENTER or doctor/physician.
GHS Storage and Disposal Phrases: Please refer to Section 7 for Storage and Section 13 for Disposal information.		



SAFETY DATA SHEET **EIA Buffer Concentrate (10X)**

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2.3 **Adverse Human Health** Material may be irritating to the mucous membranes and upper respiratory tract. Effects and Symptoms:

May be harmful by inhalation, ingestion, or skin absorption. May cause eye, skin, or respiratory system irritation.

Toxic if swallowed.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Section 3. Composition/Information on Ingredients

CAS # / RTECS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
7758-11-4 TC5580000	Potassium phosphate, dibasic	13.3 %	231-834-5 NA	No data available.
7778-77-0 TC6615500	Potassium phosphate, Monobasic	3.21 %	231-913-4 NA	No data available.
26628-22-8 VY8050000	Sodium azide	0.1 %	247-852-1 011-004-00-7	Acute Tox.(O) 2: H300 Aquatic (A) 1: H400 Aquatic (C) 1: H410
7647-14-5 √Z4725000	Sodium chloride	23.4 %	231-598-3 NA	No data available.
194491-31-1 NA	EDTA, tetrasodium salt, hydrate	0.38 %	NA NA	Acute Tox.(O) 4: H302 Eye Damage 1: H318
9048-46-8 MT6446000	Bovine Serum Albumin (BSA)	1.0 %	232-936-2 NA	Acute Tox.(O) 4: H302
7732-18-5 2C0110000	Water	58.61 %	231-791-2 NA	No data available.

Section 4. First Aid Measures

4.1	Description of First Aid	No data available.
	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.
12	Important Symptoms and	Expedition may actual addeminal pain, congration is internal organs, dehydration, diarrhad

4.2 Important Symptoms and Exposure may cause: abdominal pain, congestion in internal organs, dehydration, diarrhea, Effects, Both Acute and gastrointestinal disturbances, lowered blood pressure, nausea, and vomiting. **Delayed:**



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e é	2		EIA]	Buffer Concent	rate (10X)	Revision: 01/09/2015
Lay	nen				Supers	edes Revision: 04/02/2014
			Section 5.	Fire Fighting I	Measures	
5.1	Suitable	Extinguishing	Use alcohol-resistan	t foam, carbon dioxide,	water, or dry chemical spray	·
	Media:		Use water spray to c	ool fire-exposed contai	ners.	
	Unsuita	ble Extinguishing	A solid water stream	may be inefficient.		
	Media:					
5.2	Flamma Hazards	-	d No data available.			
	Flash P	t:	No data.			
	Explosi	ve Limits:	LEL: No data.	UEL: I	No data.	
	Autoign	ition Pt:	No data.			
5.3	Fire Fig	hting Instructions	•	•	apparatus pressure-demand	
			Section 6. Ac	cidental Releas	se Measures	
6.1	Protecti	ve Precautions,	Avoid breathing vap	ors and provide adequa	ate ventilation.	
	Protecti	ve Equipment and	As conditions warra	nt, wear a NIOSH appro	oved self-contained breathing	apparatus, or respirator,
	Emerge	ncy Procedures:	and appropriate pers	sonal protection (rubbe	r boots, safety goggles, and I	neavy rubber gloves).
6.2	Environ		Take steps to avoid	release into the enviror	nment, if safe to do so.	
	Precaut					
6.3			Contain spill and col		dianagal in apportance with l	and regulations
	Up:	ment and Cleanin	g transfer to a chemic	car waste container for (disposal in accordance with le	ocal regulations.
	op.					
			Section 7	. Handling and	Storage	
7.1	Precaut	ions To Be Taken	Avoid breathing dust	/fume/gas/mist/vapours	/spray.	
	in Hand	-	Avoid prolonged or re			
7.2			Keep container tight			
	in Storiı	ng:	Store in accordance	with information listed o	on the product insert.	
		Sec	tion 8. Exposu	ure Controls/Pe	rsonal Protection	
8.1	Exposur	e Parameters:				
CAS #		Partial Chemical	Name	Britain EH40	France VL	Europe
7758	3-11-4	Potassium phospl	nate, dibasic	No data.	No data.	No data.
7778	3-77-0	Potassium phospl	nate, Monobasic	No data.	No data.	No data.
2662	8-22-8	Sodium azide		TWA: 0.1 mg/m3 () STEL: 0.3 mg/m3 ()	TWA: 0.1 mg/m3 STEL: 0.3 mg/m3	TWA: 0.1 mg/m3 STEL: 0.3 mg/m3
7647	7-14-5	Sodium chloride		No data.	No data.	No data.
19449	91-31-1	EDTA, tetrasodiur	n salt, hydrate	No data.	No data.	No data.
9048	3-46-8	Bovine Serum Alb	umin (BSA)	No data.	No data.	No data.
7732	2-18-5	Water		No data.	No data.	No data.
CAS #	1	Partial Chemical	Name	OSHA TWA	ACGIH TWA	Other Limits
7758	3-11-4	Potassium phospl	nate, dibasic	No data.	No data.	No data.
7778	3-77-0	Potassium phospl	nate, Monobasic	No data.	No data.	No data.
2662	8-22-8	Sodium azide		No data.	CEIL: 0.29 mg/m3	No data.
7647	7-14-5	Sodium chloride		No data.	No data.	No data.
19449	91-31-1	EDTA, tetrasodiur	n salt, hydrate	No data.	No data.	No data.



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9048-46-8 Bovine Serum Alb		bumin (BSA)	No data.	No data.	No data.			
	2-18-5	Water		No data.	No data.	No data.		
3.2	-	re Controls:						
8.2.1	-	ering Controls	•	ires, local exhaust ventilatio	n, or other engineering	controls to control airbor		
	-	ation etc.):		nended exposure limits.				
8.2.2		al protection equi	-					
	-	otection:	Safety glasses					
		ive Gloves:	Compatible chemica	I-resistant gloves				
		Protective Clothing	-					
	-	atory Equipment	NIOSH approved res	pirator, as conditions warra	nt.			
		у Туре):	. De vest teles internell					
	ce Prac		Do not take internally	/. tilizing this material should I	a aquipped with an ev	wash facility and a safet		
	ce Prac	tices:	shower.		be equipped with an ey	ewash lacinty and a sale		
			Wash thoroughly after	er handling.				
			No data available.	5				
		S		sical and Chemica	l Properties			
9.1	Informa		sical and Chemical P					
-		al States:		X]Liquid []Solid				
	Appearance and Odor: A clear, colorless solution							
	pH: 7.0							
	Melting Point: No data.							
	Boiling Point: No data.							
	Flash Pt: No data.							
	Evapor	ation Rate:	No data.					
	Explosi	ive Limits:	LEL: No data	a. UEI	.: No data.			
	Vapor Pressure (vs. Air or mm No data.							
	Hg):							
	-	Density (vs. Air = ′	-					
	•	c Gravity (Water =	•					
	Solubil	ity in Water:	No data.					
	Autoig	nition Pt:	No data.					
9.2	Other In	nformation						
	Percen	t Volatile:	No data.					
			Section 10	. Stability and Rea	activity			
10.1	Reactiv	/ity:	No data available.					
10.2	Stabilit	y:		able [X]				
10.3	Stabilit	y Note(s):	Stable if stored in ac	cordance with information lis	sted on the product ins	sert.		
	Polyme	erization:	Will occur [] W	ill not occur [X]				
10.4	Conditi	ions To Avoid:	No data available.					
10.5	-	-	s strong oxidizing ager	nts				
	To Avo							
10.6	Hazard		hydrogen chloride ga	as				
		position Or	potassium oxides					
	Byprod	lucts:	sodium oxides					
						Multi-rogion for		
						Multi-region for		



SAFETY DATA SHEET EIA Buffer Concentrate (10X)

Revision: 01/09/2015 Supersedes Revision: 04/02/2014

CHEMICAL					S	upersedes Revis	sion: 04/02/2014		
		Section	on 11. Toxicologica	al Informa	ation				
I1.1 Informa Toxicol	ition on ogical Effects:	The toxicol	ogical effects of this compou	nd have not b	een thoroughl	y studied.			
		Potassium phosphate, Monobasic - Toxicity Data: Skin LD50 (rabbit): >4,640 mg/kg; Sodium chloride - Toxicity Data: Oral LD50 (rat): 3,000 mg/kg; Oral LD50 (mouse): 4,000 mg/kg; Sodium chloride - Irritation Data: Eyes (rabbit): 100 mg (24h) moderate; Skin (rabbit): 500 mg (24h)							
	c Toxicological	Only select	mild; Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information. Potassium phosphate, Monobasic RTECS Number: TC6615500 Sodium chloride RTECS Number: VZ4725000						
Effects:		Potassium							
Carcinogenicit	y:	NTP? No	IARC Monographs? No		egulated? No				
CAS #	Hazardous Cor	mponents (C	hemical Name)	NTP	IARC	ACGIH	OSHA		
7758-11-4	Potassium phos	sphate, dibasi		n.a.	n.a.	n.a.	n.a.		
7778-77-0	Potassium phos	sphate, Monot	basic	n.a.	n.a.	n.a.	n.a.		
26628-22-8	Sodium azide			n.a.	n.a.	A4	n.a.		
7647-14-5	Sodium chloride	÷		n.a.	n.a.	n.a.	n.a.		
194491-31-1	EDTA, tetrasodi	ium salt, hydra	ate	n.a.	n.a.	n.a.	n.a.		
9048-46-8	Bovine Serum A	Albumin (BSA)		n.a.	n.a.	n.a.	n.a.		
7732-18-5	Water			n.a.	n.a.	n.a.	n.a.		
Potentia 2.4 Mobility	umulative al: / in Soil: of PBT and vPvI	No data av No data av B No data av	ailable.						
		Secti	on 13. Disposal Co	onsiderat	tions				
3.1 Waste I	Disposal Method:		accordance with local, state,						
		Sec	ction 14. Transport	Informat	tion				
14.1 LAND	TRANSPORT (US		· ·						
DOT Prope DOT Hazar UN/NA Nu		e: Not da	ngerous goods.						
14.1 LAND	TRANSPORT (Eu	ropean ADR/	RID):						
ADR/RID S UN Numbe Hazard Cla		Not da	ngerous goods.						



SAFETY DATA SHEET EIA Buffer Concentrate (10X)

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
7758-11-4	Potassium phosphate, dibasic	No	No	No
7778-77-0	Potassium phosphate, Monobasic	No	No	No
26628-22-8	Sodium azide	Yes 500 LB	Yes 1000 LB	Yes
7647-14-5	Sodium chloride	No	No	No
194491-31-1	EDTA, tetrasodium salt, hydrate	No	No	No
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
7758-11-4	Potassium phosphate, dibasic	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
7778-77-0 Potassium phosphate, Monobasic		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
26628-22-8	Sodium azide	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
7647-14-5	Sodium chloride	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
194491-31-1	EDTA, tetrasodium salt, hydrate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No
9048-46-8	Bovine Serum Albumin (BSA)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; 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 accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.

Section 16. Other Information					
Revision Date:	01/09/2015				
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.				

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Revision: 01/09/2015 Supersedes Revision: 12/09/2013

		acc	cording to Regulation (EC) No. 190)7/2006 as amended b	oy (EC) No. 1272/200	08		
		Section 1.	Identification of the Substar	nce/Mixture and of	the Company/U	ndertaking		
1.1		Product Code: 400062 Product Name: Wash Buffer Concentrate (400X)						
1.2	Relevan	t identified uses c	of the substance or mixture a	and uses advised a	igainst:			
	Releva	ant identified uses	: For research use only, n	ot for human or vete	erinary use.			
1.3	Details	of the Supplier of	the Safety Data Sheet:					
	Company Name:Cayman Chemical Company1180 E. Ellsworth Rd.Ann Arbor, MI 48108							
		ite address:	www.caymanchem.com					
	Inform		Cayman Chemical Comp	bany	+1 (73	4)971-3335		
1.4	Emerge	ncy telephone nur	mber:					
	Emerg	ency Contact:	CHEMTREC Within USA CHEMTREC Outside US		•	0)424-9300 3)527-3887		
			Section 2. Ha	zards Identifi	cation			
2.2 2.2.1 2.3	Labelin GHS Sig GHS Ha Based o GHS Pr No phra GHS Ra OHS St Please Advers	gnal Word: azard Phrases: on evaluation of cur recaution Phrases ases apply. esponse Phrases: ases apply. orage and Dispos refer to Section 7 fo e Human Health and Symptoms:	al Phrases: or Storage and Section 13 for I Material may be irritating to t May be harmful by inhalatior May cause eye, skin, or resp To the best of our knowledge	Disposal information he mucous membra i, ingestion, or skin a iratory system irritat e, the toxicological p	i. ines and upper res absorption. tion. iroperties have no	spiratory tract. t been thoroughly investigated.		
		1	tion 3. Composition	1		1		
CAS RTE(Hazardous Comp REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification		
	8-11-4 80000	Potassium phosphat	te, dibasic	53.0 %	231-834-5 NA	No data available.		
	8-77-0 15500	Potassium phosphat	te, Monobasic	12.9 %	231-913-4 NA	No data available.		
	2-18-5 10000	Water		34.1 %	231-791-2 NA	No data available.		



4.1

4.2

5.1

5.2

5.3

6.1

6.2

6.3

7.1

7.2

SAFETY DATA SHEET Wash Buffer Concentrate (400X)

Revision: 01/09/2015 Supersedes Revision: 12/09/2013

4	HEMICAL	Supersedes Revision: 12/09/2013
		Section 4. First Aid Measures
	Description of First Aid	No data available.
	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.
	Important Symptoms and	I Ingestion of large amounts can cause abdominal pain, lowered blood pressure, nausea, and
	Effects, Both Acute and	vomiting.
	Delayed:	
		Section 5. Fire Fighting Measures
	Suitable Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
	Media:	Use water spray to cool fire-exposed containers.
	Unsuitable Extinguishing	A solid water stream may be inefficient.
	Media:	
	Flammable Properties an	d No data available.
	Hazards:	
	Flash Pt:	No data.
	Explosive Limits:	LEL: No data. UEL: No data.
	Autoignition Pt:	No data.
	Fire Fighting Instructions	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
	Protective Precautions,	Avoid breathing vapors and provide adequate ventilation.
	Protective Equipment and	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).
	Environmental	Take steps to avoid release into the environment, if safe to do so.
	Precautions:	
		r Contain spill and collect, as appropriate.
		gTransfer to a chemical waste container for disposal in accordance with local regulations.
	Up:	
		Section 7. Handling and Storage
	Precautions To Be Taken	Avoid breathing dust/fume/gas/mist/vapours/spray.
	in Handling:	Avoid prolonged or repeated exposure.
	Precautions To Be Taken	Keep container tightly closed.
	in Storing:	Store in accordance with information listed on the product insert.



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	Exposure Parameters:							
CAS	# Partial Chemica	al Name	Britain EH40	France VL	Europe			
775	8-11-4 Potassium phos	phate, dibasic	No data.	No data.	No data.			
777	8-77-0 Potassium phos	phate, Monobasic	No data.	No data.	No data.			
773	2-18-5 Water		No data.	No data.	No data.			
CAS	# Partial Chemica	al Name	OSHA TWA	ACGIH TWA	Other Limits			
775	8-11-4 Potassium phos	phate, dibasic	No data.	No data.	No data.			
777	8-77-0 Potassium phos	phate, Monobasic	No data.	No data.	No data.			
773	2-18-5 Water		No data.	No data.	No data.			
8.2	Exposure Controls:		ł	ł	ł			
8.2.1	Engineering Controls	Use process end	closures, local exhaust ven	tilation, or other engineering co	ontrols to control airbo			
	(Ventilation etc.):	levels below rec	ommended exposure limits	3.				
3.2.2	Personal protection equ	ipment:						
	Eye Protection:	Safety glasses						
	Protective Gloves:	Compatible cher	mical-resistant gloves					
	Other Protective Clothin	•	Ũ					
	Respiratory Equipment	-						
	(Specify Type):							
	Work/Hygienic/Maintenan Do not take internally.							
	ce Practices:							
		shower.						
			Wash thoroughly after handling.					
		No data availabl	-					
				sia al Duan antia a				
			hysical and Chen	nical Properties				
9.1	Information on Basic Ph	-	-					
	Physical States:	[]Gas		d				
	Appearance and Odor:		colorless solution					
	pH:	7.4						
	Melting Point:	No data.						
	Boiling Point:	No data.						
	Flash Pt:	No data.						
	Evaporation Rate:	No data.						
	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): No data.						
	Solubility in Water:	No data.						



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9.2	Other Info	ormation							
	Percent	Volatile:	No data.						
	Section 10. Stability and Reactivity								
10.1	Reactivit	y:	No data ava	ilable.					
10.2	Stability	:	Unstable [] Stable [X]					
10.3	Stability	Note(s):	Stable if stor	ed in accordance with information	ation listed or	n the product	insert.		
	Polymer	ization:	Will occur [] Will not occur [X]					
10.4	Conditio	ns To Avoid:	No data ava	ilable.					
10.5	Incompa	tibility - Materials	strong oxidiz	ring agents					
	To Avoid	l:							
10.6	Hazardo	us	phosphorus						
	Decomp	osition Or	potassium o	xides					
-	Byprodu	cts:							
			Sectio	n 11. Toxicological	Informa	tion			
11.1	Informat		The toxicolo	gical effects of this product ha	ive not been	thoroughly st	udied.		
		gical Effects:							
Carcir	nogenicity	.	NTP? No	IARC Monographs? No	OSHA Reg	gulated? No			
CAS	#	Hazardous Com	ponents (Ch	emical Name)	NTP	IARC	ACGIH	OSHA	
775	8-11-4	Potassium phosp	hate, dibasic		n.a.	n.a.	n.a.	n.a.	
777	8-77-0	Potassium phosp	phate, Monobasic		n.a.	n.a.	n.a.	n.a.	
773	2-18-5	Water			n.a.	n.a.	n.a.	n.a.	
			Secti	on 12. Ecological li	nformatio	on			
12.1	Toxicity:		Avoid release into the environment.						
			Runoff from fire control or dilution water may cause pollution.						
12.2	Persiste	nce and	No data available.						
	Degrada	bility:							
12.3	Bioaccu	mulative	No data available.						
	Potentia	l:							
12.4	Mobility	in Soil:	No data ava	ilable.					
12.5	Results	of PBT and vPvB	No data ava	ilable.					
	assessm	ent:							
			Sectio	on 13. Disposal Cor	sideratio	ons			
13.1	Waste Di	isposal Method:	Dispose in a	ccordance with local, state, a	nd federal re	gulations.			



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aynan				Supersec	des Revision: 12/09/2013
		Section 14. Trans	sport Informa	tion	
14.1 LAND T	RANSPORT (US	DOT):			
DOT Prope DOT Hazar UN/NA Nur		Not dangerous goods.			
14.1 LAND T	RANSPORT (Eur	opean ADR/RID):			
ADR/RID S UN Numbe Hazard Cla		Not dangerous goods.			
14.3 AIR TR/	ANSPORT (ICAO/	IATA):			
ICAO/IATA	Shipping Name:	Not dangerous goods.			
Additional Trai	nsport	Transport in accordance with loo	cal, state, and federa	al regulations.	
		Section 15. Regul	atory Informa	ition	
EPA SARA (Su	perfund Amendn	nents and Reauthorization Act of	of 1986) Lists		
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7758-11-4	Potassium phosp	hate, dibasic	No	No	No
7778-77-0	Potassium phosp	hate, Monobasic	No	No	No
7732-18-5	Water		No	No	No
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or	State Lists	
7758-11-4	Potassium phosp	hate, dibasic	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No		
7778-77-0	Potassium phosp	hate, Monobasic	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No		
7732-18-5	Water		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No		
Regulatory Info Statement:	ormation	This SDS was prepared in accor No.1272/2008.	dance with 29 CFR	1910.1200 and Regul	lation (EC)
		Section 16. Oth	er Informatio	n	
Revision Date:		01/09/2015			
Additional Info	mation 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: 10/15/2015

ac	cording to Regulation (EC) No. 1907/2006 as amended by (I	EC) No. 1272/2008
Section 1.	Identification of the Substance/Mixture and of th	e Company/Undertaking
Product Code: Product Name:	401130 8-Hydroxyguanosine AChE Tracer	
Relevant identified uses	of the substance or mixture and uses advised aga	iinst:
Relevant identified uses	S: For research use only, not for human or veterin	ary use.
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
Emergency telephone nu	mber:	
Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887
	Section 2. Hazards Identifica	ation
Classification of the Sub	stance or Mixture:	
Serious Eye Damage/E	ye Irritation, Category 2A	
Label Elements:		
-		
	Product Name: Relevant identified uses Relevant identified uses Details of the Supplier of Company Name: Web site address: Information: Emergency telephone nu Emergency Contact: Classification of the Subs Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Signal Word: GHS Hazard Phrases:	Product Name: 8-Hydroxyguanosine AChE Tracer Relevant identified uses of the substance or mixture and uses advised agare Relevant identified uses: For research use only, not for human or veterin 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 Emergency telephone number: Emergency Contact: CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada: Section 2. Hazards Identification of the Substance or Mixture: Serious Eye Damage/Eye Irritation, Category 2A Label Elements: Warning



SAFETY DATA SHEET 8-Hydroxyguanosine AChE Tracer

CAS RTE	# / CS #	Hazardous Comp REACH Registra	ponents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification		
NA NA		8-Hydroxyguanosine	AChE Tracer	< 0.01 %	NA NA	No data available.		
	18-46-8 296000	Bovine Serum Albur	nin (BSA)	1.0 %	232-936-2 NA	Acute Tox.(O) 4: H302		
NA NA		EIA Buffer		98.99 %	NA NA	Eye Damage 2A: H319		
			Section 4. Fi	rst Aid Meas	ures			
4.1	Descri Measu	ption of First Aid						
		e of Inhalation:	nhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained person Get immediate medical attention.					
	In Cas	e of Skin Contact:	Immediately wash skin with s clothing. Get medical attention			5 minutes. Remove contaminate before reuse.		
	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: 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 Me	asures			
5.1	Suitab Media:	le Extinguishing	Use alcohol-resistant foam, o Use water spray to cool fire-		-	l spray.		
	Unsuit Media:		A solid water stream may be	inefficient.				
5.2	Flamm Hazaro	nable Properties an ds:	d No data available.					
			No data available.					
	Flash		No data. LEL: No data.					
	-	sive Limits: Inition Pt:	LEL: No data. No data.	UEL: No c	1818.			
5.3	-		As in any fire, wear self-cont equivalent), and full protectiv		-			
			Section 6. Accider					
6.1	Protec	tive Precautions,	Avoid raising and breathing			n.		
		-			-	eathing apparatus, or respirator,		
	Emerg	ency Procedures:	and appropriate personal pr	otection (rubber boo	ots, safety goggles	s, and heavy rubber gloves).		
6.2	Enviro	onmental	Take steps to avoid release	into the environme	nt, if safe to do so.			
	Precau							
6.3			r Contain spill and collect, as gTransfer to a chemical wast		osal in accordance	e with local regulations.		
	op.							
						Multi-region form		



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	HEMICAL							
			Section 7	. Handling and	d Storage			
7.1	Precau	tions To Be Taken Ave	oid breathing dust	/fume/gas/mist/vapour	s/spray.			
	in Hand	dling: Ave	oid prolonged or re	epeated exposure.				
7.2	Precau	tions To Be Taken Kee	ep container tightly	y closed.				
	in Stori	ing: Sto	re in accordance	with information listed	on the product insert.			
		Sectior	8. Exposu	re Controls/Pe	ersonal Protection			
8.1	Exposu	re Parameters:						
CAS		Partial Chemical Nan	1e	Britain EH40	France VL	Europe		
	NA	8-Hydroxyguanosine A	ChE Tracer	No data.	No data.	No data.		
904	8-46-8	Bovine Serum Albumii		No data.	No data.	No data.		
NA EIA Buffer		< , ,	No data.	No data.	No data.			
CAS	CAS # Partial Chemical Name		ne	OSHA TWA	ACGIH TWA	Other Limits		
	NA	8-Hydroxyguanosine A	ChE Tracer	No data.	No data.	No data.		
904	8-46-8	Bovine Serum Albumii		No data.	No data.	No data.		
	NA	EIA Buffer		No data.	No data.	No data.		
8.2	Exposu	re Controls:		Į	I	I		
8.2.1	Engine	ering Controls Use	e process enclosu	ires, local exhaust ven	tilation, or other engineering o	controls to control airborne		
	(Ventila	ation etc.): lev	els below recomm	ended exposure limits				
8.2.2	Person	al protection equipme	nt:					
	Eye Pro	otection: Sat	ety glasses	oatible chemical-resistant gloves oat H approved respirator, as conditions warrant.				
	Protect	tive Gloves: Co	npatible chemical					
	Other F	Protective Clothing:Lab	coat					
	Respira	atory Equipment NIC	SH approved res					
	(Specif	у Туре):						
		lygienic/Maintenan Do	-					
	ce Prac		-	s storing or utilizing this material should be equipped with an eyewash and a safety shower.				
				thoroughly after handling.				
		NO	data available.					
		Sect	ion 9. Phys	sical and Chem	nical Properties			
9.1	Informa	tion on Basic Physica	and Chemical P	roperties				
	Physica	al States:	[]Gas [] Liquid [X] Solid	Ł			
		ance and Odor:		d 8-hydroxyguanosine AChE Tracer				
	Melting		No data.					
	Boiling		No data.					
	Flash F		No data.					
	-	ation Rate:	No data.					
		ability (solid, gas):	No data availa		LIEL . No data			
	-	ive Limits: Processor (vo. Air or mr	LEL: No data No data.	1.	UEL: No data.			
	vapor i Hg):	Pressure (vs. Air or mr	i no uala.					
		Density (vs. Air = 1):	No data.					
		=						



Gravity (Water = y in Water: tion Pt: ormation Volatile: y: y: Note(s): ization: ns To Avoid: tibility - Material l: us osition or	No data. No data. No data. Section 10. Stability a No data available. Unstable [] Stable [X]	formation listed of		: insert.								
tion Pt: ormation Volatile: 	No data. No data. Section 10. Stability a No data available. Unstable [] Stable [X] Stable if stored in accordance with in Will occur [] Will not occur [X] No data available. s No data available.	formation listed of		: insert.								
ormation Volatile: 	No data. Section 10. Stability a No data available. Unstable [] Stable [X] Stable if stored in accordance with in Will occur [] Will not occur [X] No data available. s No data available.	formation listed of		: insert.								
Volatile: y: Note(s): ization: ns To Avoid: tibility - Material I: us	Section 10. Stability a No data available. Unstable [] Stable [X] Stable if stored in accordance with in Will occur [] Will not occur [X] No data available. s No data available.	formation listed of		insert.								
ry: Note(s): ization: ns To Avoid: tibility - Material I: us	Section 10. Stability a No data available. Unstable [] Stable [X] Stable if stored in accordance with in Will occur [] Will not occur [X] No data available. s No data available.	formation listed of		: insert.								
Note(s): ization: ns To Avoid: tibility - Material I: us	No data available. Unstable [] Stable [X] Stable if stored in accordance with in Will occur [] Will not occur [X] No data available. s No data available.	formation listed of		insert.								
Note(s): ization: ns To Avoid: tibility - Material I: us	No data available. Unstable [] Stable [X] Stable if stored in accordance with in Will occur [] Will not occur [X] No data available. s No data available.	formation listed of		insert.								
Note(s): ization: ns To Avoid: tibility - Material I: us	Stable if stored in accordance with in Will occur [] Will not occur [X] No data available. s No data available.		on the product	insert.								
ization: ns To Avoid: tibility - Material I: us	Will occur [] Will not occur [X] No data available. s No data available.		on the product	insert.								
ns To Avoid: tibility - Material I: us	No data available. s No data available.				Stable if stored in accordance with information listed on the product insert.							
tibility - Material I: us	s No data available.											
l: us												
us	No data available.											
	No data available.											
osition or												
cts:												
	Section 11. Toxicologi	cal Informa	ation									
ion on	The toxicological effects of this produ	ict have not beer	n thoroughly st	tudied.								
gical Effects:	Sodium chloride - Toxicity Data: Oral LD50 (mouse): 4 gm/kg; Intraperitoneal LD50 (mouse):2602											
	mg/kg; Oral LD50 (rat): 3000 mg/kg; Intraperitoneal LD50 (rat): 2600 mg/kg;											
Toxicological	Sodium chloride - Investigated as an	agricultural cher	mical, drug, mi	utagen, primary	/ irritant,							
	reproductive effector, and tumorigen.											
	Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.											
	See actual entry in RTECS for comp											
	Sodium chloride RTECS Number: V2	24725000										
	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA							
8-Hydroxyguano	sine AChE Tracer	n.a.	n.a.	n.a.	n.a.							
Bovine Serum A	lbumin (BSA)	n.a.	n.a.	n.a.	n.a.							
EIA Buffer		n.a.	n.a.	n.a.	n.a.							
	Section 12. Ecologic	al Informat	ion									
	Avoid release into the environment.											
	Runoff from fire control or dilution wa	ter may cause p	ollution.									
	No data available.											
nce and												
nce and bility:	No data available.											
bility:		No data available.										
bility: mulative	No data available.											
bility: mulative I: in Soil:												
bility: mulative I: in Soil:												
b	ulative	ulative No data available.										



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		Section 13. Dispos	al Considera	tions		
13.1 Waste [Disposal Method:	Dispose in accordance with loca	al, state, and federal	regulations.		
		Section 14. Trans	sport Informa	tion		
14.1 LAND	RANSPORT (US	DOT):				
DOT Prope	er Shipping Name	Not dangerous goods.				
DOT Hazaı	d Class:					
UN/NA Nu	mber:					
14.1 LAND 1	RANSPORT (Eur	opean ADR/RID):				
	hipping Name:	Not dangerous goods.				
UN Numbe						
Hazard Cla						
	ANSPORT (ICAO/					
	Shipping Name:	Not dangerous goods.				
Additional Tra	nsport	Transport in accordance with lo	cal, state, and federa	ai regulations.		
			- (. (°		
		Section 15. Regul	atory Informa	ation		
EPA SARA (Su	uperfund Amendn	nents and Reauthorization Act of	of 1986) Lists			
CAS # Hazardous Com		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
NA		sine AChE Tracer	No	No	No	
9048-46-8	Bovine Serum Al	bumin (BSA)	No	No	No	
NA	EIA Buffer		No	No	No	
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or	State Lists		
NA	8-Hydroxyguanos	sine AChE Tracer	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
9048-46-8	Bovine Serum Al	bumin (BSA)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No			
NA	EIA Buffer		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Info	ormation	This SDS was prepared in acco No.1272/2008.	rdance with 29 CFR	1910.1200 and R	egulation (EC)	
		Section 16. Oth	er Informatio	'n		
Revision Date:		10/15/2015				
	rmation About	No data available.				
	fination About					
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.				



SAFETY DATA SHEET 8-Hydroxyguanosine ELISA Monoclonal Antibody

Product Code: Product Name:	,	ody ainst:
Product Name: Relevant identified uses o Relevant identified uses	8-Hydroxyguanosine ELISA Monoclonal Antibo f the substance or mixture and uses advised aga For research use only, not for human or vetering	ainst:
Relevant identified uses o Relevant identified uses	f the substance or mixture and uses advised aga For research use only, not for human or vetering	ainst:
Relevant identified uses	: For research use only, not for human or vetering	
	,	nary use.
Details of the Supplier of t	he Safety Data Sheet:	
Company Name:	Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	
Web site address:	www.caymanchem.com	
Information:	Cayman Chemical Company	+1 (734)971-3335
Emergency telephone nur	nber:	
Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300
	CHEMTREC Outside USA and Canada:	+1 (703)527-3887
	Section 2. Hazards Identifica	ation
Classification of the Subs	tance or Mixture:	
Serious Eye Damage/Ey	e Irritation, Category 2A	
Label Elements:		
GHS Precaution Phrase P264: Wash {hands} thoro P280: Wear {protective gl GHS Response Phrases P305+351+338: IF IN EY to do. Continue rinsing. P337+313: If eye irritation GHS Storage and Dispo	s: bughly after handling. oves/protective clothing/eye protection/face protectio : ES: Rinse cautiously with water for several minutes. persists, get medical advice/attention. sal Phrases:	Remove contact lenses, if present and easy
	Information: Emergency telephone num Emergency Contact: Classification of the Subst Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H319: Causes serious eye GHS Precaution Phrases P264: Wash {hands} thoro P280: Wear {protective gla GHS Response Phrases P305+351+338: IF IN EYE to do. Continue rinsing. P337+313: If eye irritation GHS Storage and Dispose Please refer to Section 7 for Adverse Human Health	Web site address: www.caymanchem.com Information: Cayman Chemical Company Emergency telephone number: Emergency Contact: CHEMTREC Within USA and Canada: Emergency Contact: CHEMTREC Outside USA and Canada: CHEMTREC Outside USA and Canada: Classification of the Substance or Mixture: Section 2. Hazards Identification Classification of the Substance or Mixture: Serious Eye Damage/Eye Irritation, Category 2A Label Elements: Varning GHS Signal Word: Warning GHS Hazard Phrases: H319: Causes serious eye irritation. GHS Precaution Phrases: P264: Wash {hands} thoroughly after handling. P280: Wear {protective gloves/protective clothing/eye protection/face protection P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. to do. Continue rinsing. P337+313: If eye irritation persists, get medical advice/attention. GHS Storage and Disposal Phrases: Please refer to Section 7 for Storage and Section 13 for Disposal information. Adverse Human Health Causes serious eye irritation



SAFETY DATA SHEET 8-Hydroxyguanosine ELISA Monoclonal Antibody

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		Sec	tion 3. Composition	/Information of	on Ingredie	nts		
CAS RTEC		Hazardous Com REACH Registra	ponents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification		
NA NA		8-Hydroxyguanosine	e ELISA Monoclonal Antibody	< 0.01 %	NA NA	No data available.		
NA NA		EIA Buffer		99.99 %	Eye Damage 2A: H319			
			Section 4. Fi	rst Aid Measu	ires			
4.1	Descrip Measur	otion of First Aid es:						
	In Case	of Inhalation:	Remove to fresh air. If not bre Get immediate medical attent		respiration or giv	ve oxygen by trained personnel.		
	-		-	n with soap and plenty of water for at least 15 minutes. Remove contaminated attention if symptoms occur. Wash clothing before reuse.				
	-			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 anyt unconscious person. Get medical attention. Do NOT induce vomiting unles medical personnel.								
			Section 5. Fire	Fighting Mea	asures			
5.1	Suitable Extinguishing Use alcohol-resistant foam, carbon dioxide Media: Use water spray to cool fire-exposed cont			exposed containers.	, or dry chemical	spray.		
5.2	Media:	able Properties an	g A solid water stream may be ndNo data available.					
			No data available.					
	Flash P	't:	No data.					
	Explosi	ve Limits:	LEL: No data.	UEL: No da	ta.			
	Autoigr	nition Pt:	No data.					
5.3	Fire Fig	hting Instructions	s: As in any fire, wear self-conta equivalent), and full protectiv		-			
			Section 6. Acciden	tal Release N	<i>leasures</i>			
6.1	Protect	ive Precautions, ive Equipment an ency Procedures:	Avoid raising and breathing d As conditions warrant, wear and appropriate personal pro	a NIOSH approved s	self-contained bre	eathing apparatus, or respirator,		
6.2	Enviror Precaut		Take steps to avoid release	into the environment	, if safe to do so.			
6.3			r Contain spill and collect, as a ng Transfer to a chemical waste		sal in accordance	with local regulations.		
						Multi-region format		



SAFETY DATA SHEET 8-Hydroxyguanosine ELISA Monoclonal Antibody

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	CHEMICAL								
			Section	7. Handling and	l Storage				
7.1	Precaut	tions To Be Take	n Avoid breathing du	ist/fume/gas/mist/vapours	s/spray.				
	in Hand	lling:	Avoid prolonged or	r repeated exposure.					
7.2	Precaut	tions To Be Take	NKeep container tightly closed.						
	in Stori	ng:	Store in accordance with information listed on the product insert.						
		Sec	ction 8. Expos	sure Controls/Pe	ersonal Protection				
8.1	Exposu	re Parameters:							
CAS	#	Partial Chemica	I Name	Britain EH40	France VL	Europe			
	NA 8-Hydroxyguanos Monoclonal Antib			No data.	No data.	No data.			
	NA EIA Buffer			No data.	No data.	No data.			
CAS	#	Partial Chemica	I Name	OSHA TWA	ACGIH TWA	Other Limits			
	NA	8-Hydroxyguano Monoclonal Antik		No data.	No data.	No data.			
	NA	EIA Buffer		No data.	No data.	No data.			
8.2	Exposu	re Controls:							
8.2.1	Engine	ering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne						
	(Ventila	tion etc.):	levels below recommended exposure limits.						
8.2.2	Person	al protection equ	ipment:						
	Eye Pro	otection:	Safety glasses						
	Protect	ive Gloves:	Compatible chemical-resistant gloves						
	Other P	rotective Clothin	g:Lab coat						
	Respira	tory Equipment	NIOSH approved respirator, as conditions warrant.						
	(Specify	у Туре):							
	Work/H	ygienic/Maintena	n Do not take interna	-					
	ce Prac	tices:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower						
			Wash thoroughly after handling.						
			No data available.						
		S	Section 9. Phy	ysical and Chem	nical Properties				
9.1	Informa	tion on Basic Phy	sical and Chemical	Properties					
	Physica	al States:	[] Gas	[] Liquid [X] Solic	ł				
	Appear	ance and Odor:	lyophilzied	8-hydroxyguanosine mor	noclonal antibody				
	Melting	Point:	No data.						
	Boiling	Point:	No data.						
	Flash P	t:	No data.						
1		ation Datas	N						

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.



SAFETY DATA SHEET 8-Hydroxyguanosine ELISA Monoclonal Antibody

	Specific	Gravity (Water =	1): No data.						
	Solubilit	y in Water:	No data.						
	Autoigni	tion Pt:	No data.						
9.2	Other Inf	ormation							
	Percent	Volatile:	No data.						
			Section 10. Stability an	d React	ivity				
10.1	Reactivit	y:	No data available.						
10.2	Stability	:	Unstable [] Stable [X]						
10.3	Stability	Note(s):	Stable if stored in accordance with infor	mation listed	on the product	insert.			
	Polymer	ization:	Will occur [] Will not occur [X]						
10.4	Conditio	ns To Avoid:	No data available.						
10.5	0.5 Incompatibility - Material		No data available.						
	To Avoid:								
10.6	Hazardo	us	No data available.						
	Decomposition or								
	Byprodu	cts:							
			Section 11. Toxicologica	al Inform	ation				
11.1	Informat	ion on	The toxicological effects of this product	have not bee	n thoroughly st	udied.			
	Toxicolo	gical Effects:	Sodium chloride - Toxicity Data: Oral LD50 (mouse): 4 gm/kg; Intraperitoneal LD50 (mouse):2602 mg/kg; Oral LD50 (rat): 3000 mg/kg; Intraperitoneal LD50 (rat): 2600 mg/kg;						
	Chronic	Toxicological	Sodium chloride - Investigated as an ag	ricultural che	mical, drug, mu	itagen, primary	v irritant,		
	Effects:		reproductive effector, and tumorigen.						
			Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.						
			See actual entry in RTECS for complete Sodium chloride RTECS Number: VZ47						
CAS			ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
	NA		sine ELISA Monoclonal Antibody	n.a.	n.a.	n.a.	n.a.		
	NA	EIA Buffer		n.a.	n.a.	n.a.	n.a.		
			Section 12. Ecological	Informa	tion				
12.1	Toxicity:		Avoid release into the environment.						
			Runoff from fire control or dilution water	may cause p	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	ient:							
12.6	Other ad	verse effects:	No data available.						



SAFETY DATA SHEET 8-Hydroxyguanosine ELISA Monoclonal Antibody

Multi-region format

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	sal Method:	Section 13. Dispos	al Considerat				
14.1 LAND TRAN	sal Method:	I		ions			
	13.1 Waste Disposal Method: Dispose in accordance with local, state						
		Section 14. Trans	sport Informat	ion			
DOT Proper Sh	ISPORT (US I	DOT):					
	ipping Name:	Not dangerous goods.					
DOT Hazard Cla							
UN/NA Number							
	-	opean ADR/RID):					
ADR/RID Shipp UN Number:	ing Name:	Not dangerous goods.					
Hazard Class:							
	PORT (ICAO/I	ATA):					
ICAO/IATA Shi	-	Not dangerous goods.					
Additional Transpo		Transport in accordance with loo	cal, state, and federal	regulations.			
Information:			·	-			
		Section 15. Regul	atory Informat	ion			
EPA SARA (Superf	und Amendm	ents and Reauthorization Act o	of 1986) Lists				
CAS # Hazardous Com		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
NA 8-H	lydroxyguanos	sine ELISA Monoclonal Antibody	No	No	No		
NA EIA	Buffer		No	No	No		
CAS # Haz	zardous Com	ponents (Chemical Name)	Other US EPA or S	State Lists			
NA 8-H	lydroxyguanos	sine ELISA Monoclonal Antibody	CAA HAP,ODC: No PROP.65: No	o; CWA NPDES: No;	TSCA: No; CA		
NA EIA	Buffer		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulatory Informa	tion	This SDS was prepared in accor	dance with 29 CFR 1	910.1200 and Regul	ation (EC)		
Statement:		No.1272/2008.					
		Section 16. Oth	er Informatior	ו			
Revision Date:		10/15/2015					
Revision Date:		No data available.					
Additional Informat							
			s believed to be accu	rate and represents t	he best information		
Additional Informat This Product: Company Policy or	Disclaimer:		currently available to us. However, we make no warranty of merchantability or any other warranty,				
This Product:	Disclaimer:	-		-	-		
This Product:	Disclaimer:	currently available to us. However express or implied, with respect use. Users should make their ow	to such information, a	and we assume no lia	bility resulting from its		