

Revision: 01/30/2017 Supersedes Revision: 08/01/2016

		accordi	ng to Regulation (EC) No. 190	7/2006 as amended by	(EC) No. 1272/200	8
		Section 1. Ide	ntification of the Substan	ce/Mixture and of the	he Company/Ur	ndertaking
1.1	Product Product		400046 96 Well Kit Box			
1.2	Relevan	t identified uses of th	e substance or mixture a	nd uses advised ag	jainst:	
	Releva	nt identified uses:	For research use only, no	ot for human or veteri	inary use.	
1.3	Details o	of the Supplier of the	Safety Data Sheet:			
	Compa	any Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	any		
	Web s	te address:	www.caymanchem.com			
	Inform	ation:	Cayman Chemical Comp	any	+1 (734	4)971-3335
1.4	Emerge	ncy telephone numbe	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	ation	
2.1	Classific	ation of the Substan	ce or Mixture:			
2.2	Label El	ements:				
	GHS F Based GHS F No phr GHS F GHS S Please	Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposal e refer to Section 7 for S	Storage and Section 13 for	Disposal information	1.	-
2.3			aterial may be irritating to the			piratory tract.
	Effects		ay be harmful by inhalation ay cause eye, skin, or resp		•	
						been thoroughly investigated.
			n 3. Composition		-	
CAS RTE		Hazardous Compone REACH Registration	ents (Chemical Name)/ No.	Concentration	EC No./ EC Index No.	GHS Classification
NA NA		96 Well Kit Box		100.0 %	NA NA	No data available.



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		Section 4. First Aid Measures
4.1	Description of First Aid	
	Measures:	
	In Case of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.
	In Case of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated
		clothing. Get medical attention if symptoms occur. Wash clothing before reuse.
	In Case of Eye Contact:	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.
	In Case of Ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an
	-	unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by
		medical personnel.
		Section 5. Fire Fighting Measures
5.1	Suitable Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
	Media:	Use water spray to cool fire-exposed containers.
	Unsuitable Extinguishing	a A solid water stream may be inefficient.
	Media:	
5.2	Flammable Properties an	dNo data available.
	Hazards:	
		No data available.
	Flash Pt:	No data.
	Explosive Limits:	LEL: No data. UEL: No data. No data.
5.2	Autoignition Pt:	
5.3	Fire Fighting instructions	s: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.
		Section 6. Accidental Release Measures
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.
		d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,
	Emergency Procedures:	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
6.2	Environmental	Take steps to avoid release into the environment, if safe to do so.
	Precautions:	
6.3	Methods and Material Fo	r Contain spill and collect, as appropriate.
	Containment and Cleanir	hgTransfer to a chemical waste container for disposal in accordance with local regulations.
	Up:	
		Section 7. Handling and Storage
7.1	Precautions To Be Taker	Avoid breathing dust/fume/gas/mist/vapours/spray.
	in Handling:	Avoid prolonged or repeated exposure.
7.2	Precautions To Be Taker	Keep container tightly closed.
	in Storing:	Store in accordance with information listed on the product insert.
	Sec	tion 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	



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8.2	Exposure Controls:			
8.2.1	Engineering Controls	Use prod	cess enclosures, local exhaust ventilation, or other engineering controls to con	trol airborne
	(Ventilation etc.):	levels be	elow recommended exposure limits.	
8.2.2	Personal protection equi	oment:		
	Eye Protection:	Safety g	lasses	
	Protective Gloves:		ble chemical-resistant gloves	
	Other Protective Clothing	-		
			approved respirator, as conditions warrant.	
	(Specify Type):	NICOIT		
	Work/Hygienic/Maintenan	Do not t	ake internally	
	ce Practices:	Facilities	storing or utilizing this material should be equipped with an eyewash and a sa	afety shower.
			oroughly after handling.	
		No data	available.	
	S	ection	9. Physical and Chemical Properties	
9.1	Information on Basic Phys		-	
	Physical States:	[] Gas [] Liquid [X] Solid	
	Appearance and Odor:	ç	6 Well Kit Box	
	pH:	١	lo data.	
	Melting Point:	١	lo data.	
	Boiling Point:	١	lo data.	
	Flash Pt:	١	lo data.	
	Evaporation Rate:	١	lo data.	
	Flammability (solid, gas):	Ν	lo data available.	
	Explosive Limits:	L	EL: No data. UEL: No data.	
	Vapor Pressure (vs. Air o	rmm N	lo data.	
	Hg):			
	Vapor Density (vs. Air = 1): 1	lo data.	
	Specific Gravity (Water =	1): N	lo data.	
	Solubility in Water:	١	lo data.	
	Octanol/Water Partition	١	lo data.	
	Coefficient:			
	Autoignition Pt:	١	lo data.	
	Decomposition Temperat	ure: N	lo data.	
	Viscosity:	١	lo data.	
9.2	Other Information			
	Percent Volatile:	١	lo data.	
		Se	ction 10. Stability and Reactivity	
10.1	Reactivity:	No data	available.	
10.2	Stability:	Unstable	e [] Stable [X]	
10.3	Stability Note(s):	Stable if	stored in accordance with information listed on the product insert.	
	Polymerization:	Will occu	ır [] Will not occur [X]	
10.4	Conditions To Avoid:	No data	available.	
10.5	Incompatibility - Materials	s No data	available.	
1	To Avoid:			
10.6	Hazardous	No data	available.	
				l
1			Multi-	region format



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Decomposition or **Byproducts:** Section 11. Toxicological Information 11.1 Information on The toxicological effects of this product have not been thoroughly studied. **Toxicological Effects:** CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA NA 96 Well Kit Box n.a. n.a. n.a. n.a. Section 12. Ecological Information 12.1 **Toxicity:** Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 12.2 Persistence and No data available. **Degradability:** Bioaccumulative No data available. 12.3 Potential: 12.4 Mobility in Soil: No data available. Results of PBT and vPvB No data available. 12.5 assessment: No data available. 12.6 Other adverse effects: Section 13. Disposal Considerations Dispose in accordance with local, state, and federal regulations. 13.1 Waste Disposal Method: Section 14. Transport Information 14.1 LAND TRANSPORT (US DOT): Not dangerous goods. **DOT Proper Shipping Name: DOT Hazard Class: UN/NA Number:** 14.1 LAND TRANSPORT (European ADR/RID): Not dangerous goods. ADR/RID Shipping Name: **UN Number:** Hazard Class: 14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Not dangerous goods. Additional Transport Transport in accordance with local, state, and federal regulations. Information: Section 15. Regulatory Information EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) NA 96 Well Kit Box No No No CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists NA 96 Well Kit Box CAA HAP, ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No Multi-region format



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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:	01/30/2017
Additional Information About This Product:	No data available.
Company Policy or Disclaimer:	DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.



Revision: 12/20/2016

	according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008					
		Section 1. Ide	ntification of the Substar	nce/Mixture and of t	he Company/Ur	ndertaking
1.1	Product Product		401482 NGAL Sample Diluent Co	oncentrate (5X)		
1.2	Relevan	t identified uses of th	e substance or mixture a	ind 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:			
	Compa	any Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	any		
		ite address:	www.caymanchem.com			
	Inform		Cayman Chemical Comp	any	+1 (734	4)971-3335
1.4	-	ncy telephone numbe				
	Emerg	ency Contact:	CHEMTREC Within USA CHEMTREC Outside US			0)424-9300 3)527-3887
						5)521-5881
			Section 2. Haz	zards Identific	cation	
2.1		cation of the Substan	ce or Mixture:			
2.2	Label El					
		ignal Word:	None			
		lazard Phrases:	ntly available data this sub	stanco or mixturo ic r	ant classifiable ac	cording to CHS
		Precaution Phrases:			IOI Classifiable ac	
		ases apply.				
	-	Response Phrases:				
		ases apply.				
	GHS S	Storage and Disposal	Phrases:			
	Please	e refer to Section 7 for	Storage and Section 13 for	Disposal information	ו.	
2.3			aterial may be irritating to t			piratory tract.
	Effects	• •	ay be harmful by inhalation	-	-	
			ay cause eye, skin, or resp o the best of our knowledge			been thoroughly investigated.
			n 3. Composition			
CAS RTE	#/ CS #	Hazardous Componer REACH Registration	ents (Chemical Name)/ No.	Concentration	EC No./ EC Index No.	GHS Classification
NA NA		NGAL Sample Diluent C	oncentrate (5X)	100.0 %	NA NA	No data available.



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		Section 4. First Aid Measures
4.1	Description of First Aid	
	Measures:	
	In Case of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.
	In Case of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.
	In Case of Eye Contact:	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.
	In Case of Ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.
		Section 5. Fire Fighting Measures
5.1	Suitable Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
	Media:	Use water spray to cool fire-exposed containers.
	Unsuitable Extinguishing Media:	g A solid water stream may be inefficient.
5.2	Flammable Properties an Hazards:	dNo data available.
		No data available.
	Flash Pt:	No data.
	Explosive Limits:	LEL: No data. UEL: No data.
	Autoignition Pt:	No data.
5.3	Fire Fighting Instructions	s: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.
		Section 6. Accidental Release Measures
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.
	Protective Equipment an	d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,
	Emergency Procedures:	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
6.2	Environmental Precautions:	Take steps to avoid release into the environment, if safe to do so.
6.3	Methods and Material Fo	r Contain spill and collect, as appropriate.
		ngTransfer to a chemical waste container for disposal in accordance with local regulations.
	Up:	
		Section 7. Handling and Storage
7.1	Precautions To Be Taker	Avoid breathing dust/fume/gas/mist/vapours/spray.
	in Handling:	Avoid prolonged or repeated exposure.
7.2	Precautions To Be Taker	Neep container tightly closed.
	in Storing:	Store in accordance with information listed on the product insert.
	Sec	tion 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	



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~ ~ ~	Firm a survey of the last	
8.2	Exposure Controls:	
8.2.1		Use process enclosures, local exhaust ventilation, or other engineering controls to control airborn levels below recommended exposure limits.
8.2.2	Personal protection equip	ment:
	Eye Protection:	Safety glasses
	Protective Gloves:	Compatible chemical-resistant gloves
	Other Protective Clothing:	Lab coat
		NIOSH approved respirator, as conditions warrant.
	(Specify Type):	
	Work/Hygienic/Maintenan	-
		Facilities storing or utilizing this material should be equipped with an eyewash and a safety showe Wash thoroughly after handling.
		No data available.
	Se	ction 9. Physical and Chemical Properties
9.1	Information on Basic Physi	cal and Chemical Properties
	Physical States:	[]Gas [X]Liquid []Solid
	Appearance and Odor:	A liquid
	pH:	No data.
	Melting Point:	No data.
	Boiling Point:	No data.
	Flash Pt:	No data.
	Evaporation Rate:	No data.
	Flammability (solid, gas):	No data available.
	Explosive Limits:	LEL: No data. UEL: No data.
	Vapor Pressure (vs. Air or	mm No data.
	Hg):	
	Vapor Density (vs. Air = 1)	No data.
	Specific Gravity (Water = 1): No data.
	Solubility in Water:	No data.
	Octanol/Water Partition	No data.
	Coefficient:	
	Autoignition Pt:	No data.
	Decomposition Temperatu	re: No data.
	Viscosity:	No data.
9.2	Other Information	
	Percent Volatile:	No data.
		Section 10. Stability and Reactivity
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	Conditions To Avoid:	No data available.
10.5	Incompatibility - Materials	No data available.
	To Avoid:	



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Toxicological Effects: CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA NA NGAL Sample Diluent Concentrate (5X) n.a. No Defenitia			osition or					
11.1 Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied. CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA NA NGAL Sample Diluent Concentrate (5X) n.a.		Byprodu	ucts:					
Toxicological Effects: NTP IARC ACGIH OSHA NA NGAL Sample Diluent Concentrate (5X) n.a. N.a. <td></td> <td></td> <td></td> <td>Section 11. Toxico</td> <td>ological Info</td> <td>rmation</td> <td></td> <td></td>				Section 11. Toxico	ological Info	rmation		
CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA NA NGAL. Sample Diluent Concentrate (5X) n.a.	11.1	Informat	tion on	The toxicological effects of this	product have no	t been thoroughly s	tudied.	
NA NGAL Sample Diluent Concentrate (5X) n.a. n.a.<		Toxicolo	ogical Effects:					
Section 12. Ecological Information 12.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 12.2 Persistence and Degradability: No data available. 12.3 Bioaccumulative No data available. No data available. Potential: 12.4 Mobility in Soll: No data available. 12.4 Mobility in Soll: No data available. 12.5 Results of PBT and vPvB No data available. 12.6 Other adverse effects: No data available. 12.6 Disposal Method: Disposal Considerations 13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. 14.1 LAND TRANSPORT (US DOT): DOT Proper Shipping Name: Not dangerous goods. UNNAN Number: Natard Class: UNVAN Number: 14.1 LAND TRANSPORT (CAO/IATA): ICAO/IATA Shippi	CAS	#	Hazardous Com	ponents (Chemical Name)	NTI	P IARC	ACGIH	OSHA
12.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 12.2 Persistence and Degradability: No data available. 12.3 Bioaccumulative No data available. No data available. 12.4 Mobility in Soll: No data available. No data available. 12.5 Results of PBT and VPVB No data available. assessment: 12.6 Other adverse effects: No data available. Section 13. Disposal Considerations 13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. Section 14. Transport Information 14.1 LAND TRANSPORT (US DOT): DOT Proper Shipping Name: Not dangerous goods. UNNA Number: Not dangerous goods. UNNA Number: 14.1 LAND TRANSPORT (European ADR/RID): ADR/RID Shipping Name: Not dangerous goods. UN Number: Hazard Class: Not dangerous goods. UN Number: Hazard Class: 14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Not dangerous goods. If acad federal regulations. Information: 1 CAS # Hazardous Components (Chemical Name) S. 302 (EIS) S. 304 RQ S. 313 (TRI) NA NGAL Sample Diluent Concentrate (5X) No No No No		NA	NGAL Sample D	iluent Concentrate (5X)	n.a.	n.a.	n.a.	n.a.
Runoff from fire control or dilution water may cause pollution. 12.2 Persistence and No data available. Degradability: No data available. 12.3 Bioaccumulative No data available. Potential: No data available. 12.4 Mobility in Soil: No data available. No data available. 12.5 Results of PBT and vPvB No data available. assessment: Image: Colspan="2">Image: Colspan="2" Tealspan="2" Te			•	Section 12. Ecol	ogical Infor	mation	r.	r.
12.2 Persistence and No data available. Degradability: 12.3 Bioaccumulative No data available. Potential: 12.4 Mobility in Soil: No data available. 12.5 Results of PBT and vPvB No data available. assessment: 12.6 Other adverse effects: No data available. Section 13. Disposal Considerations 13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. Image: Section 14. Transport Information 14.1 LAND TRANSPORT (US DOT): DOT Proper Shipping Name: Not dangerous goods. DOT Hazard Class: UN/NA Number: 14.1 LAND TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Not dangerous goods. UN Number: Hazard Class: 14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Not dangerous goods. Moditional Transport in accordance with local, state, and federal regulations. Information: Section 15. Regulatory Information EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI)	12.1	Toxicity	:	Avoid release into the environr	ment.			
Degradability: 12.3 Bioaccumulative No data available. Potential: 12.4 Mobility in Soil: No data available. 12.5 Results of PBT and vPVB No data available. assessment: 12.6 Other adverse effects: No data available. 12.6 Other adverse effects: No data available. 12.6 Other adverse effects: No data available. 13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. 14.1 LAND TRANSPORT (US DOT): DOT Proper Shipping Name: Not dangerous goods. DOT Hazard Class: UN/NA Number: Not dangerous goods. UN Number: Hazard Class: UN Number: Not dangerous goods. UN Number: Hazard Class: Itansport in accordance with local, state, and federal regulations. Information: Information: Section 15. Regulatory Information EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) So12 (EHS) S.304 RQ S.313 (TRI) NA NGAL Sample Diluent Concentrate (SX) No				Runoff from fire control or dilut	ion water may ca	use pollution.		
12.3 Bioaccumulative Potential: No data available. 12.4 Mobility in Soil: No data available. 12.5 Results of PBT and vPvB No data available. 12.6 Other adverse effects: No data available. Section 13. Disposal Considerations 13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. Section 14. Transport Information 14.1 LAND TRANSPORT (US DOT): DOT Proper Shipping Name: Not dangerous goods. ODT Hazard Class: UN/NA Number: Hazard Class: UN Number: Hazard Class: UN Number: Hazard Class: UN Number: Hazard Class: UN Number: Hazard Class: 14.3 Mot dangerous goods. Additional Transport Transport in accordance with local, state, and federal regulations. Information EPA SARA (Superfund Amendments	12.2	Persiste	nce and	No data available.				
Potential: 12.4 Mobility in Soil: No data available. 12.5 Results of PBT and vPvB No data available. assessment: 12.6 Other adverse effects: No data available. Section 13. Disposal Considerations 13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. Section 14. Transport Information 14.1 LAND TRANSPORT (US DOT): DOT Proper Shipping Name: Not dangerous goods. DOT Hazard Class: UN/NA Number: ADR/RID Shipping Name: Not dangerous goods. UN Number: Hazard Class: Hazard Class: UN/NA Number: Hazard Class: Hazard Class: UN/NA Number: Hazard Class: Hazard Class: UN/NA Shipping Name: Not dangerous goods. Additional Transport (ICAO/IATA): ICAO/IATA Shipping Name: Not dangerous goods. Additional Transport in accordance with local, state, and federal regulations. Information: EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) NA NGAL Sample Diluent Concentrate (5X) No No No		Degrada	ıbility:					
12.4 Mohility in Soli: No data available. 12.5 Results of PBT and vPvB No data available. 12.6 Other adverse effects: No data available. 12.6 Other adverse effects: No data available. Section 13. Disposal Considerations 13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. Section 14. Transport Information 14.1 LAND TRANSPORT (US DOT): DOT Proper Shipping Name: Not dangerous goods. DOT Proper Shipping Name: Not dangerous goods. UN/NA Number: Hazard Class: UN/NA Number: Hazard Class: UN/NA Number: Hazard Class: UN/NA Number: Hazard Class: UN KI dangerous goods. UN Number: Hazard Class: UN Additional Transport in accordance with local, state, and federal regulations. Information EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazar	12.3	Bioaccu	mulative	No data available.				
12.5 Results of PBT and vPvB No data available. assessment: 12.6 Other adverse effects: No data available. 12.6 Other adverse effects: No data available. 12.6 Section 13. Disposal Considerations 13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. 13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. 14.1 LAND TRANSPORT (US DOT): DOT Proper Shipping Name: Not dangerous goods. DOT Hazard Class: UN/NA Number: 14.1 LAND TRANSPORT (European ADR/RID): ADR/RID Shipping Name: Not dangerous goods. UN Number: Hazard Class: 14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Not dangerous goods. Additional Transport Transport in accordance with local, state, and federal regulations. Information: Section 15. Regulatory Information EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) \$.302 (EHS) \$.304 RQ \$.313 (TRI) NA NGAL Sample Diluent Concentrate (5X) No No No		Potentia	d:					
assessment: 12.6 Other adverse effects: No data available. Section 13. Disposal Considerations 13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. Section 14. Transport Information 14.1 LAND TRANSPORT (US DOT): DOT Proper Shipping Name: Not dangerous goods. DOT Hazard Class: UN/NA Number: 14.1 LAND TRANSPORT (European ADR/RID): ADR/RID Shipping Name: Not dangerous goods. UN Number: Hazard Class: 14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Not dangerous goods. Additional Transport Transport in accordance with local, state, and federal regulations. Information: EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) NA NGAL Sample Diluent Concentrate (5X) No No No No	12.4	Mobility	in Soil:	No data available.				
12.6 Other adverse effects: No data available. Section 13. Disposal Considerations 13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. Section 14. Transport Information 14.1 LAND TRANSPORT (US DOT): DOT Proper Shipping Name: DOT Hazard Class: UN/NA Number: 14.1 LAND TRANSPORT (European ADR/RID): ADR/RID Shipping Name: Not dangerous goods. UN Number: Hazard Class: UN Number: Hazard Class: 14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Not dangerous goods. ICAO/IATA Shipping Name: Not dangerous goods. Additional Transport Transport in accordance with local, state, and federal regulations. Information EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) NA NGAL Sample Diluent Concentrate (5X) No No No	12.5	Results	of PBT and vPvB	No data available.				
Section 13. Disposal Considerations Section 14. Transport Information Information Info		assessn	nent:					
13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. Image: Section 14. Transport Information 14.1 LAND TRANSPORT (US DOT): DOT Proper Shipping Name: Not dangerous goods. DOT Hazard Class: UN/NA Number: 14.1 LAND TRANSPORT (European ADR/RID): ADR/RID Shipping Name: Not dangerous goods. UN Number: Hazard Class: 14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Not dangerous goods. Additional Transport Transport in accordance with local, state, and federal regulations. Information: Section 15. Regulatory Information EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists S. 304 RQ S. 313 (TRI) NA NGAL Sample Diluent Concentrate (5X) No No No CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists No NA NGAL Sample Diluent Concentrate (5X) No No No	12.6	Other ac	verse effects:	No data available.				
Section 14. Transport Information 14.1 LAND TRANSPORT (US DOT): DOT Proper Shipping Name: Not dangerous goods. DOT Hazard Class: UN/NA Number: 14.1 LAND TRANSPORT (European ADR/RID): ADR/RID Shipping Name: Not dangerous goods. UN/NA Number: Hazard Class: 14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Not dangerous goods. Additional Transport (ICAO/IATA): ICAO/IATA Shipping Name: Not dangerous goods. Additional Transport In accordance with local, state, and federal regulations. Information: EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) NA NGAL Sample Diluent Concentrate (5X) No No Other US EPA or State Lists NA				Section 13. Dispo	sal Conside	erations		
14.1 LAND TRANSPORT (US DOT): DOT Proper Shipping Name: Not dangerous goods. DOT Hazard Class: UN/NA Number: 14.1 LAND TRANSPORT (European ADR/RID): ADR/RID Shipping Name: Not dangerous goods. UN Number: Hazard Class: 14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Not dangerous goods. Additional Transport Transport in accordance with local, state, and federal regulations. Information: Section 15. Regulatory Information EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) NA NGAL Sample Diluent Concentrate (5X) No No No	13.1	Waste D	isposal Method:	Dispose in accordance with loo	cal, state, and fed	eral regulations.		
DOT Proper Shipping Name:Not dangerous goods.DOT Hazard Class:UN/NA Number:14.1 LAND TRANSPORT (European ADR/RID):ADR/RID Shipping Name:Not dangerous goods.UN Number:Hazard Class:14.3 AIR TRANSPORT (ICAO/IATA):ICAO/IATA Shipping Name:Not dangerous goods.Additional Transport (ICAO/IATA):ICAO/IATA Shipping Name:Not dangerous goods.Additional Transport I Transport in accordance with local, state, and federal regulations.Information:EPA SARA (Superfund Amendments and Reauthorization Act of 1986) ListsCAS #Hazardous Components (Chemical Name)S. 302 (EHS)S. 304 RQS. 313 (TRI)NANGAL Sample Diluent Concentrate (5X)Other US EPA or State Lists				Section 14. Trar	nsport Infor	mation		
DOT Hazard Class: UN/NA Number: 14.1 LAND TRANSPORT (European ADR/RID): ADR/RID Shipping Name: Not dangerous goods. UN Number: Hazard Class: 14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Not dangerous goods. Additional Transport Transport in accordance with local, state, and federal regulations. Information: Section 15. Regulatory Information EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) NA NGAL Sample Diluent Concentrate (5X) No No No No	14.1	LAND T	RANSPORT (US	DOT):				
UN/NA Number: 14.1 LAND TRANSPORT (European ADR/RID): ADR/RID Shipping Name: Not dangerous goods. UN Number: Hazard Class: 14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Not dangerous goods. Additional Transport In accordance with local, state, and federal regulations. Information: EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) NA NGAL Sample Diluent Concentrate (5X) No No No No	D	OT Prope	r Shipping Name	: Not dangerous goods.				
14.1 LAND TRANSPORT (European ADR/RID): ADR/RID Shipping Name: Not dangerous goods. UN Number: Hazard Class: 14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Not dangerous goods. 14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Not dangerous goods. Additional Transport Transport in accordance with local, state, and federal regulations. Information: Transport in accordance with local, state, and federal regulations. EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) NA NGAL Sample Diluent Concentrate (5X) No No No CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists No NA NGAL Sample Diluent Concentrate (5X) CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA	D	OT Hazar	d Class:					
ADR/RID Shipping Name:Not dangerous goods.UN Number:Hazard Class:Hazard Class:14.3 AIR TRANSPORT (ICAO/IATA):ICAO/IATA Shipping Name:Not dangerous goods.Additional TransportNot dangerous goods.Additional Transport in accordance with local, state, and federal regulations.Information:EPA SARA (Surfund Amendments and Reauthorization Act or J986) ListsCAS #Hazardous Components (Chemical Name)S. 302 (EHS)S. 304 RQS. 313 (TRI)NANGAL Sample Diluent Concentrate (5X)NoNoNoNoCAS #Hazardous Components (Chemical Name)Other US EPA or State ListsNANGAL Sample Diluent Concentrate (5X)CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA	U	N/NA Nur	nber:					
UN Number: Hazard Class: 14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Not dangerous goods. Additional Transport Transport in accordance with local, state, and federal regulations. Information: EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) NA NGAL Sample Diluent Concentrate (5X) No No No No CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists NA NGAL Sample Diluent Concentrate (5X) CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA	14.1	LAND T	RANSPORT (Eur	opean ADR/RID):				
Hazard Class: 14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Not dangerous goods. Additional Transport Transport in accordance with local, state, and federal regulations. Information: Section 15. Regulatory Information EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) NA NGAL Sample Diluent Concentrate (5X) No No No CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists No No NA	A	DR/RID S	hipping Name:	Not dangerous goods.				
14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Not dangerous goods. Additional Transport Transport in accordance with local, state, and federal regulations. Information: Transport in accordance with local, state, and federal regulations. EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) NA NGAL Sample Diluent Concentrate (5X) No No No CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists No NA NGAL Sample Diluent Concentrate (5X) CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA	U	N Numbe	r:					
ICAO/IATA Shipping Name:Not dangerous goods.Additional TransportTransport in accordance with local, state, and federal regulations.Information:Section 15. Regulatory InformationEPA SARA (Superfund Amendments and Reauthorization Act of 1986) ListsCAS #Hazardous Components (Chemical Name)S. 302 (EHS)S. 304 RQS. 313 (TRI)NANGAL Sample Diluent Concentrate (5X)NoNoNoOther US EPA or State ListsNANGAL Sample Diluent Concentrate (5X)Other US EPA or State Lists	н	azard Cla	SS:					
Additional TransportTransport in accordance with local, state, and federal regulations.Information:Section 15. Regulatory InformationEPA SARA (Superfund Amendments and Reauthorization Act of 1986) ListsCAS #Hazardous Components (Chemical Name)S. 302 (EHS)S. 304 RQS. 313 (TRI)NANGAL Sample Diluent Concentrate (5X)NoNoNoOther US EPA or State ListsNANGAL Sample Diluent Concentrate (5X)Other US EPA or State ListsNANGAL Sample Diluent Concentrate (5X)CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA	14.3	AIR TR	ANSPORT (ICAO/	/IATA):				
Information: Section 15. Regulatory Information EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) NA NGAL Sample Diluent Concentrate (5X) No No No No NA NGAL Sample Diluent Concentrate (5X) Other US EPA or State Lists State Lists NA NGAL Sample Diluent Concentrate (5X) CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA	IC	CAO/IATA	Shipping Name:	Not dangerous goods.				
Section 15. Regulatory Information EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) NA NGAL Sample Diluent Concentrate (5X) No No No NA NGAL Sample Diluent Concentrate (5X) Other US EPA or State Lists S. 304 RQ S. 313 (TRI) NA NGAL Sample Diluent Concentrate (5X) Other US EPA or State Lists S. 304 RQ S. 313 (TRI)			nsport	Transport in accordance with	ocal, state, and fe	ederal regulations.		
Output EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) NA NGAL Sample Diluent Concentrate (5X) No No No CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists NA NGAL Sample Diluent Concentrate (5X) CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA	Infor	mation:						
CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) NA NGAL Sample Diluent Concentrate (5X) No No No CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists NA NGAL Sample Diluent Concentrate (5X) CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA				Section 15. Regu	latory Infor	mation		
NA NGAL Sample Diluent Concentrate (5X) No No No CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists NA NGAL Sample Diluent Concentrate (5X) CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA	EPA	SARA (Su	perfund Amendn	nents and Reauthorization Act	t of 1986) Lists			
CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists NA NGAL Sample Diluent Concentrate (5X) CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA	CAS	#	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 31	3 (TRI)
NA NGAL Sample Diluent Concentrate (5X) CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA		NA	NGAL Sample D	iluent Concentrate (5X)	No	No	No	
NA NGAL Sample Diluent Concentrate (5X) CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA	CAS	#	Hazardous Com	ponents (Chemical Name)	Other US EP	A or State Lists		
				· · · · · · · · · · · · · · · · · · ·	CAA HAP,OE	C: No; CWA NPD	ES: No; TSCA	: No; CA
			•		-+			



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Revision: 12/20/2016

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:	12/20/2016
Additional Information About	No data available.
This Product:	
Company Policy or Disclaimer:	DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.



Revision: 12/20/2016

	according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008					
		Section 1. Ide	ntification of the Substan	ce/Mixture and of t	he Company/Ur	ndertaking
1.1	Product Product		401484 Wash Solution Concentra	ate (25X)		
1.2	Relevan	t identified uses of th	ne substance or mixture a	nd uses advised ag	jainst:	
	Releva	int identified uses:	For research use only, no	ot for human or veteri	inary use.	
1.3	Details o	of the Supplier of the	Safety Data Sheet:			
	Compa	any Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	any		
	Web si	ite address:	www.caymanchem.com			
	Inform	ation:	Cayman Chemical Comp	any	+1 (734	4)971-3335
1.4	-	ncy telephone numbe				
	Emerg	ency Contact:	CHEMTREC Within USA CHEMTREC Outside US			0)424-9300 3)527-3887
					•	5)527-3007
			Section 2. Haz	zards Identific	ation	
2.1		cation of the Substan	ce or Mixture:			
2.2	Label El					
		ignal Word: Iazard Phrases:	None			
			ntly available data this subs	stance or mixture is r	ot classifiable ac	cording to GHS
		Precaution Phrases:				
	No phr	ases apply.				
	GHS F	Response Phrases:				
	No phr	ases apply.				
	GHS S	storage and Disposal	Phrases:			
	Please		Storage and Section 13 for	-		
2.3			aterial may be irritating to the			piratory tract.
	Effects		ay be harmful by inhalation ay cause eye, skin, or resp	-	-	
						been thoroughly investigated.
		Section	n 3. Composition	/Information c	on Ingredier	nts
CAS RTE	#/ CS #	Hazardous Compon REACH Registration	ents (Chemical Name)/ No.	Concentration	EC No./ EC Index No.	GHS Classification
NA NA		Wash Solution Concentr	rate (25X)	100.0 %	NA NA	No data available.
1						



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		Section 4. First Aid Measures
4.1	Description of First Aid	
	Measures:	
	In Case of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.
	In Case of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.
	In Case of Eye Contact:	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.
	In Case of Ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.
		Section 5. Fire Fighting Measures
5.1	Suitable Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
	Media:	Use water spray to cool fire-exposed containers.
	Unsuitable Extinguishing Media:	g A solid water stream may be inefficient.
5.2	Flammable Properties an Hazards:	I d No data available.
		No data available.
	Flash Pt:	No data.
	Explosive Limits:	LEL: No data. UEL: No data.
	Autoignition Pt:	No data.
5.3	Fire Fighting Instructions	s: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.
		Section 6. Accidental Release Measures
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.
	Protective Equipment an	d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,
	Emergency Procedures:	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
6.2	Environmental Precautions:	Take steps to avoid release into the environment, if safe to do so.
6.3		r Contain spill and collect, as appropriate.
	Containment and Cleanir Up:	ngTransfer to a chemical waste container for disposal in accordance with local regulations.
		Section 7. Handling and Storage
 7.1	Precautions To Be Taker	Avoid breathing dust/fume/gas/mist/vapours/spray.
	in Handling:	Avoid prolonged or repeated exposure.
7.2		N Keep container tightly closed.
	in Storing:	Store in accordance with information listed on the product insert.
	Sec	tion 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	



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8.2	Exposure Controls:					
8.2.1	Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airbor				
0.2.1	(Ventilation etc.):	levels below recommended exposure limits.				
8.2.2	Personal protection equ					
0.2.2	Eye Protection:	Safety glasses				
	Protective Gloves:					
		Compatible chemical-resistant gloves				
	Other Protective Clothin	-				
	Respiratory Equipment	NIOSH approved respirator, as conditions warrant.				
	(Specify Type):					
	Work/Hygienic/Maintena	-				
	ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety show				
		Wash thoroughly after handling.				
		No data available.				
	S	Section 9. Physical and Chemical Properties				
9.1	-	vsical and Chemical Properties				
	Physical States:	[]Gas [X]Liquid []Solid				
	Appearance and Odor:	A liquid				
	pH:	No data.				
	Melting Point:	No data.				
	Boiling Point:	No data.				
	Flash Pt:	No data.				
	Evaporation Rate:	No data.				
	Flammability (solid, gas)	: No data available.				
	Explosive Limits:	LEL: No data. UEL: No data.				
	Vapor Pressure (vs. Air or mm No data. Hg):					
	Vapor Density (vs. Air =	1): No data.				
	Specific Gravity (Water =	= 1): No data.				
	Solubility in Water:	, No data.				
	Octanol/Water Partition	No data.				
	Coefficient:					
	Autoignition Pt:	No data.				
	Decomposition Tempera					
	Viscosity:	No data.				
9.2	Other Information					
9.2						
	Percent Volatile:	No data.				
		Section 10. Stability and Reactivity				
10.1	Reactivity:	No data available.				
10.2	Stability:	Unstable [] Stable [X]				
10.3	Stability Note(s):	Stable if stored in accordance with information listed on the product insert.				
	Polymerization:	Will occur [] Will not occur [X]				
10.4	Conditions To Avoid:	No data available.				
10.5	Incompatibility - Materia	Is No data available.				
	To Avoid:					
10.6	Hazardous	No data available.				
		Multi-region for				



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	Decomposition or Byproducts:						
	Бургоц		Section 11 Toxico	logical Inform	nation		
			Section 11. Toxico				
.1		Information on The toxicological effects of this product have not been thoroughly studied. Toxicological Effects: The toxicological effects of this product have not been thoroughly studied.					
4.0		-	energente (Chemical Neme)	NTD			00114
AS			nponents (Chemical Name)	NTP	IARC	ACGIH	OSHA
	NA	wash Solution C	Concentrate (25X)	n.a.	n.a.	n.a.	n.a.
			Section 12. Ecol	ogical Informa	ation		
.1	Toxicity						
			Runoff from fire control or dilut	ion water may cause	pollution.		
.2		ence and	No data available.				
	Degrada	ability:					
.3		Imulative	No data available.				
	Potentia						
.4	-	in Soil:	No data available.				
.5			3 No data available.				
	assessr						
.6	Other a	dverse effects:	No data available.				
			Section 13. Dispo				
.1	Waste D	isposal Method:	Dispose in accordance with loc	cal, state, and federa	l regulations.		
			Section 14. Trar	nsport Informa	ation		
4.1	LAND 1	RANSPORT (US	DOT):				
D	OT Prope	er Shipping Name	e: Not dangerous goods.				
D	OT Hazar	d Class:					
U	N/NA Nu	nber:					
4.1	LAND 1	RANSPORT (Eur	ropean ADR/RID):				
Α	DR/RID S	hipping Name:	Not dangerous goods.				
U	N Numbe	r:					
Н	azard Cla	ISS:					
4.3		ANSPORT (ICAO	-				
IC	CAO/IATA	Shipping Name:	o o				
	tional Tra	nsport	Transport in accordance with I	ocal, state, and fede	ral regulations.		
nfor	mation:						
			Section 15. Regu	latory Inform	ation		
PA	SARA (Sı	perfund Amendr	ments and Reauthorization Act	t of 1986) Lists			
:AS	#	Hazardous Con	nponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313	B (TRI)
	NA	Wash Solution C	Concentrate (25X)	No	No	No	
AS	#	Hazardous Con	nponents (Chemical Name)	Other US EPA or State Lists			
NA Wash Solution Concentrate (25X)		CAA HAP,ODC: PROP.65: No	No; CWA NPDE	S: No; TSCA:	No; CA		



Revision: 12/20/2016

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:	12/20/2016
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.



		accord	ding to Regulation (EC) No. 190	7/2006 as amended by	(EC) No. 1272/200	8
		Section 1. Ide	entification of the Substan	ce/Mixture and of t	he Company/Ur	ndertaking
1.1	Product Code:401486Product Name:NGAL Streptavidin-HRP					
1.2	Relevan	t identified uses of t	he substance or mixture a	nd uses advised ag	gainst:	
	Releva	Int identified uses:	For research use only, no	ot for human or veteri	inary use.	
1.3	Details o	of the Supplier of the	e Safety Data Sheet:			
	Compa	any Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	any		
	Web s	ite address:	www.caymanchem.com			
	Inform	ation:	Cayman Chemical Comp	any	+1 (734	4)971-3335
1.4	Emerge	ncy telephone numb	per:			
	Emerg	ency Contact:	CHEMTREC Within USA CHEMTREC Outside US		-	0)424-9300 3)527-3887
			Section 2. Haz	zards Identific	ation	
2.1	Classific	cation of the Substa	nce or Mixture:			
2.2	Label El	ements:				
		ignal Word:	None			
		lazard Phrases:				
		on evaluation of curre Precaution Phrases:	ently available data this sub	stance or mixture is n	not classifiable ac	cording to GHS.
		ases apply.				
	-	Response Phrases:				
		rases apply.				
	-	Storage and Disposa	I Phrases:			
			Storage and Section 13 for	Disposal information	۱.	
2.3	Adverse	e Human Health	Aaterial may be irritating to the	he mucous membran	es and upper res	piratory tract.
	Effects		lay be harmful by inhalation	-	-	
			Nay cause eye, skin, or resp			
					•	been thoroughly investigated.
		Sectio	on 3. Composition	/Information c	on Ingredie	nts
CAS RTE	# / CS #	Hazardous Compor REACH Registratio	nents (Chemical Name)/ n No.	Concentration	EC No./ EC Index No.	GHS Classification
NA NA		NGAL Streptavidin-HRP		100.0 %	NA NA	No data available.



Revision: 12/20/2016

		Section 4. First Aid Measures
4.1	Description of First Aid	
	Measures:	
	In Case of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.
	In Case of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.
	In Case of Eye Contact:	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.
	In Case of Ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.
		Section 5. Fire Fighting Measures
5.1	Suitable Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
	Media:	Use water spray to cool fire-exposed containers.
	Unsuitable Extinguishing Media:	g A solid water stream may be inefficient.
5.2	Flammable Properties ar Hazards:	IdNo data available.
		No data available.
	Flash Pt:	No data.
	Explosive Limits:	LEL: No data. UEL: No data.
	Autoignition Pt:	No data.
5.3	Fire Fighting Instruction	s: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.
		Section 6. Accidental Release Measures
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.
	Protective Equipment an	d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,
	Emergency Procedures:	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
6.2	Environmental	Take steps to avoid release into the environment, if safe to do so.
	Precautions:	
6.3		r Contain spill and collect, as appropriate.
		ngTransfer to a chemical waste container for disposal in accordance with local regulations.
	Up:	
		Section 7. Handling and Storage
7.1	Precautions To Be Taker	Avoid breathing dust/fume/gas/mist/vapours/spray.
	in Handling:	Avoid prolonged or repeated exposure.
7.2	Precautions To Be Taker	NKeep container tightly closed.
	in Storing:	Store in accordance with information listed on the product insert.
	Sec	tion 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	



8.2	Exposure Controls:							
8.2.1	-	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne						
		levels below recommended exposure limits.						
8.2.2	Personal protection equip	ment:						
		Safety glasses						
	Protective Gloves:	Compatible chemical-resistant gloves						
	Other Protective Clothing:Lab coat							
	Respiratory Equipment NIOSH approved respirator, as conditions warrant.							
	(Specify Type):							
	Work/Hygienic/Maintenan	Do not take internally.						
		Facilities storing or utilizing this material should be equipped with an eyewash and a safety showe						
		Wash thoroughly after handling.						
		No data available.						
	Se	ection 9. Physical and Chemical Properties						
9.1		ical and Chemical Properties						
	Physical States:	[]Gas [X]Liquid []Solid						
	Appearance and Odor:	A liquid						
	pH:	No data.						
	Melting Point:	No data.						
	Boiling Point:	No data.						
	Flash Pt:	No data.						
	Evaporation Rate:	No data.						
	Flammability (solid, gas):	No data available.						
	Explosive Limits:	LEL: No data. UEL: No data.						
	Vapor Pressure (vs. Air or	mm No data.						
	Hg):							
	Vapor Density (vs. Air = 1)	: No data.						
	Specific Gravity (Water = 1	I): No data.						
	Solubility in Water:	No data.						
	Octanol/Water Partition	No data.						
	Coefficient:							
	Autoignition Pt:	No data.						
	Decomposition Temperatu	ire: No data.						
	Viscosity:	No data.						
9.2	Other Information							
	Percent Volatile:	No data.						
		Section 10. Stability and Reactivity						
10.1	Reactivity:	No data available.						
10.2	Stability:	Unstable [] Stable [X]						
10.3	Stability Note(s):	Stable if stored in accordance with information listed on the product insert.						
	Polymerization:	Will occur [] Will not occur [X]						
10.4	Conditions To Avoid:	No data available.						
10.5	Incompatibility - Materials	No data available.						
	To Avoid:							



Section 11. Toxic	ological Inform	nation		
e toxicological effects of th	is product have not be	een thoroughly st	udied.	
ents (Chemical Name)	NTP	IARC	ACGIH	OSHA
RP	n.a.	n.a.	n.a.	n.a.
Section 12. Eco	logical Inform	ation		
oid release into the enviror				
noff from fire control or dilu	ition water may cause	e pollution.		
data available.				
data available.				
data available.				
data available.				
data available.				
Section 13. Disp	osal Consider	ations		
spose in accordance with lo				
Section 14. Tra	Insport Inform	ation		
):	·			
Not dangerous goods.				
an ADR/RID):				
Not dangerous goods.				
A):				
Not dangerous goods. ansport in accordance with	local state and fede	ral regulations		
ansport in accordance with	liocal, state, and lede	i al legulations.		
Section 15. Reg	ulatory Inform	ation		
s and Reauthorization A	•			
ents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 31	3 (TRI)
RP	No	No	No	. 7
ents (Chemical Name)	Other US EPA o	r State Lists	Į	
RP			S: No; TSCA	No; CA
	(Chemical Name)	CAA HAP,ODC:	CAA HAP,ODC: No; CWA NPDE	CAA HAP,ODC: No; CWA NPDES: No; TSCA:



Revision: 12/20/2016

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:	12/20/2016
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.



Page: 1 of 5

	CHEMICAL					
		acc	ording to Regulation (EC) No. 190)7/2006 as amended b	oy (EC) No. 1272/20	08
		Section 1.	Identification of the Substar	nce/Mixture and of	the Company/U	ndertaking
1.1	Product	Code:	401487			
	Product	Name:	TMB Substrate			
1.2	Relevan	t identified uses o	f the substance or mixture a	and uses advised a	against:	
	Releva	int identified uses	: For research use only, n	ot for human or vete	erinary use.	
1.3	Details o	of the Supplier of t	he Safety Data Sheet:			
	Compa	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 (73	4)971-3335
1.4	Emerge	ncy telephone nur	nber:			
	Emerg	ency Contact:	CHEMTREC Within USA	and Canada:	+1 (80	00)424-9300
			CHEMTREC Outside US	SA and Canada:	+1 (70	03)527-3887
			Section 2. Hat	zards Identifi	cation	
2.1	Classific	cation of the Subs	tance or Mixture:			
2.2	Label El	ements:				
2.3	GHS F Based GHS F No phi GHS F No phi GHS S Please Adverse	Precaution Phrase rases apply. Response Phrases rases apply. Storage and Dispo e refer to Section 7 f e Human Health and Symptoms:	sal Phrases: for Storage and Section 13 for Material may be irritating to t May be harmful by inhalatior May cause eye, skin, or resp To the best of our knowledge	r Disposal informatio he mucous membra n, ingestion, or skin a piratory system irritat e, the toxicological p	on. anes and upper re absorption. tion. properties have no	spiratory tract. t been thoroughly investigated.
		Sect	ion 3. Composition	/Information	on Ingredie	nts
CAS RTE	5 # / CS #	Hazardous Comp REACH Registrat	oonents (Chemical Name)/ ion No.	Concentration	EC No./ EC Index No.	GHS Classification
NA NA		TMB Substrate		100.0 %	NA NA	No data available.



Revision: 12/20/2016

		Section 4. First Aid Measures
4.1	Description of First Aid	
	Measures:	
	In Case of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.
	In Case of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.
	In Case of Eye Contact:	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.
	In Case of Ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.
		Section 5. Fire Fighting Measures
5.1	Suitable Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
	Media:	Use water spray to cool fire-exposed containers.
	Unsuitable Extinguishing Media:	A solid water stream may be inefficient.
5.2	Flammable Properties an Hazards:	d No data available.
		No data available.
	Flash Pt:	No data.
	Explosive Limits:	LEL: No data. UEL: No data.
	Autoignition Pt:	No data.
5.3	Fire Fighting Instructions	s: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.
		Section 6. Accidental Release Measures
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.
	Protective Equipment an	d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,
	Emergency Procedures:	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
6.2	Environmental	Take steps to avoid release into the environment, if safe to do so.
	Precautions:	
6.3		r Contain spill and collect, as appropriate.
		ngTransfer 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.
	Sec	tion 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	



Revision: 12/20/2016

8.2	Exposure Controls:								
8.2.1	-	e process enclosures, local exhaust ventilation, or other engineering controls to control airborne							
0.2.1		els below recommended exposure limits.							
0 7 7	,								
8.2.2	Personal protection equipment: Eye Protection: Safety glasses								
	-								
		Protective Gloves: Compatible chemical-resistant gloves							
	Other Protective Clothing: Lab coat								
	Respiratory EquipmentNIOSH approved respirator, as conditions warrant.(Specify Type):								
	Work/Hygienic/Maintenan Do	not take internally.							
	ce Practices: Fa	cilities storing or utilizing this material should be equipped with an eyewash and a safety showe							
	Wa	ash thoroughly after handling.							
	Nc	data available.							
	Sec	tion 9. Physical and Chemical Properties							
9.1	Information on Basic Physica	I and Chemical Properties							
	Physical States:	[]Gas [X]Liquid []Solid							
	Appearance and Odor:	A liquid							
	pH:	No data.							
	Melting Point:	No data.							
	Boiling Point:	No data.							
	Flash Pt:	No data.							
	Evaporation Rate:	No data.							
	Flammability (solid, gas):	No data available.							
	Explosive Limits:	LEL: No data. UEL: No data.							
	Vapor Pressure (vs. Air or m	m No data.							
	Hg):								
	Vapor Density (vs. Air = 1):	No data.							
	Specific Gravity (Water = 1):	No data.							
	Solubility in Water:	No data.							
	Octanol/Water Partition	No data.							
	Coefficient:								
	Autoignition Pt:	No data.							
	Decomposition Temperature	No data.							
	Viscosity:	No data.							
9.2	Other Information								
	Percent Volatile:	No data.							
		Section 10. Stability and Reactivity							
10.1	Reactivity: No	data available.							
10.2	Stability: Un	stable [] Stable [X]							
10.3	Stability Note(s): Sta	able if stored in accordance with information listed on the product insert.							
	Polymerization: Wi	Il occur [] Will not occur [X]							
10.4	Conditions To Avoid: light	nt sensitive							
10.4									
10.4	Incompatibility - Materials No	data avallable.							
	Incompatibility - Materials No To Avoid:								



	Decomp	osition or						
	Byprod	ucts:						
			Section 11. Toxico	ological Inforr	nation			
1.1	Informa	tion on	The toxicological effects of this	s product have not be	een thoroughly stu	udied.		
	Toxicol	ogical Effects:						
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
	NA	TMB Substrate		n.a.	n.a.	n.a.	n.a.	
			Section 12. Ecol	ogical Inform	ation	•	·	
2.1	Toxicity							
			Runoff from fire control or dilution water may cause pollution.					
2.2	Persiste	ence and	No data available.					
	Degrada	ability:						
2.3	Bioaccu	Imulative	No data available.					
	Potentia	al:						
2.4	Mobility	in Soil:	No data available.					
2.5	Results	of PBT and vPvB	No data available.					
	assessr	nent:						
2.6	Other a	dverse effects:	No data available.					
			Section 13. Dispo	sal Consider	ations			
3.1	Waste D)isposal Method:	Dispose in accordance with loo	cal, state, and federa	I regulations.			
			Section 14. Trar	nsport Inform	ation			
4.1	LAND T	RANSPORT (US I	DOT):					
D	OT Prope	er Shipping Name:	Not dangerous goods.					
D	OT Hazar	d Class:						
U	N/NA Nur	nber:						
4.1	LAND 1	RANSPORT (Euro	opean ADR/RID):					
Α	DR/RID S	hipping Name:	Not dangerous goods.					
U	N Numbe	r:						
Н	azard Cla	ISS:						
4.3	AIR TR	ANSPORT (ICAO/I	ATA):					
		Shipping Name:	Not dangerous goods.					
	ional Tra	nsport	Transport in accordance with I	local, state, and fede	ral regulations.			
nfori	nation:							
			Section 15. Regu	ulatory Inform	ation			
PA	SARA (Sı	perfund Amendm	ents and Reauthorization Act	t of 1986) Lists				
AS	#	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313	B (TRI)	
	NA	TMB Substrate		No	No	No		
CAS	#	Hazardous Com	ponents (Chemical Name)	Other US EPA o	r State Lists			
	NA TMB Substrate			CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				



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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:	12/20/2016				
Additional Information About	No data available.				
This Product:					
	No data available. DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.				



Revision: 12/20/2016

Page: 1 of 5

		acc	cording to Regulation (EC) No. 190)7/2006 as amended by	(EC) No. 1272/200	8
		Section 1.	Identification of the Substar	nce/Mixture and of t	the Company/Ur	ndertaking
1.1	Product Product		401488 Stop Solution			
1.2	Relevan	t identified uses c	of the substance or mixture a	and uses advised ag	gainst:	
	Releva	ant identified uses	: For research use only, n	ot for human or veter	inary use.	
1.3	Details of	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	-	ncy telephone nui ency Contact:	mber: CHEMTREC Within USA CHEMTREC Outside US		-	0)424-9300 3)527-3887
			Section 2. Ha	zards Identific	cation	
2.1 2.2 2.3	Label El GHS S GHS H Based GHS F No ph GHS S Please Advers	Precaution Phrase rases apply. Response Phrases rases apply. Storage and Dispo e refer to Section 7 e Human Health and Symptoms:	None urrently available data this sub es: s: for Storage and Section 13 for Material may be irritating to t May be harmful by inhalation May cause eye, skin, or resp	r Disposal informatior he mucous membrar n, ingestion, or skin al piratory system irritation e, the toxicological pr	n. hes and upper res bsorption. on. operties have not	piratory tract. been thoroughly investigated.
CAS	#/	1	oonents (Chemical Name)/	Concentration	EC No./	GHS Classification
	CS #	REACH Registra	· · ·		EC Index No.	
NA NA		Stop Solution		100.0 %	NA NA	No data available.



Revision: 12/20/2016

		Section 4. First Aid Measures
4.1	Description of First Aid	
	Measures:	
	In Case of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.
	In Case of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.
	In Case of Eye Contact:	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.
	In Case of Ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.
		Section 5. Fire Fighting Measures
5.1	Suitable Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
	Media:	Use water spray to cool fire-exposed containers.
	Unsuitable Extinguishing Media:	g A solid water stream may be inefficient.
5.2	Flammable Properties ar Hazards:	IdNo data available.
		No data available.
	Flash Pt:	No data.
	Explosive Limits:	LEL: No data. UEL: No data.
	Autoignition Pt:	No data.
5.3	Fire Fighting Instruction	s: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.
		Section 6. Accidental Release Measures
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.
	Protective Equipment an	d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,
	Emergency Procedures:	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
6.2	Environmental	Take steps to avoid release into the environment, if safe to do so.
	Precautions:	
6.3		r Contain spill and collect, as appropriate.
	Up:	ngTransfer to a chemical waste container for disposal in accordance with local regulations.
	ор.	
		Section 7. Handling and Storage
7.1	Precautions To Be Taker	Avoid breathing dust/fume/gas/mist/vapours/spray.
	in Handling:	Avoid prolonged or repeated exposure.
7.2	Precautions To Be Taker	n Keep container tightly closed.
	in Storing:	Store in accordance with information listed on the product insert.
	Sec	tion 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	



Revision: 12/20/2016

	HEMICAL					
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 equip	ment:				
	Eye Protection:	Safety glasses				
	Protective Gloves:	Compatible chemical-resistant gloves				
	Other Protective Clothing:	Lab coat				
	Respiratory Equipment	NIOSH approved respirator, as conditions warrant.				
	(Specify Type):					
	Work/Hygienic/Maintenan	Do not take internally.				
	ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.				
		Wash thoroughly after handling.				
		No data available.				
	Se	ection 9. Physical and Chemical Properties				
9.1	Information on Basic Phys	ical and Chemical Properties				
	Physical States:	[]Gas []Liquid [X]Solid				
	Appearance and Odor:	A liquid - contains 0.5 M sulfuric acid				
	pH:	No data.				
	Melting Point:	No data.				
	Boiling Point:	No data.				
	Flash Pt:	No data.				
	Evaporation Rate:	No data. No data available. LEL: No data. UEL: No data.				
	Flammability (solid, gas):					
	Explosive Limits:					
	Vapor Pressure (vs. Air or	mm No data.				
	Hg):					
	Vapor Density (vs. Air = 1)	: No data.				
	Specific Gravity (Water = 1	I): No data.				
	Solubility in Water:	No data.				
	Octanol/Water Partition	No data.				
	Coefficient:					
	Autoignition Pt:	No data.				
	Decomposition Temperatu	ire: No data.				
	Viscosity:	No data.				
9.2	Other Information					
	Percent Volatile:	No data.				
		Section 10. Stability and Reactivity				
10.1	Reactivity:	No data available.				
10.2	-	Unstable [] Stable [X]				
10.3	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 - Materials To Avoid:	No data available.				
10.6		No data available.				
10.0	1 18281 4045	ויט עמנמ מימוומטול.				



11.1 I	Byprodu	icts:						
1								
٦			Section 11. Toxico	ological Infor	mation			
	Informat	ion on	The toxicological effects of this	product have not	been thoroughly st	udied.		
	Toxicolo	gical Effects:						
CAS #		Hazardous Components (Chemical Name)		NTP	IARC	ACGIH	OSHA	
N	NA	Stop Solution		n.a.	n.a.	n.a.	n.a.	
			Section 12. Ecol	ogical Inform	nation			
12.1	Toxicity:	:	Avoid release into the environment.					
			Runoff from fire control or dilution water may cause pollution.					
12.2 F	Persistence and		No data available.					
ſ	Degrada	bility:						
2.3 E	Bioaccu	mulative	No data available.					
F	Potentia	1:						
2.4 I	Mobility	in Soil:	No data available.					
2.5 F	Results	of PBT and vPvB	No data available.					
á	assessm	nent:						
2.6	Other ad	lverse effects:	No data available.					
			Section 13. Dispo	sal Conside	rations			
3.1 \	Waste D	isposal Method:	Dispose in accordance with loo	cal, state, and fede	ral regulations.			
			Section 14. Trar	nsport Inform	nation			
14.1	LAND T	RANSPORT (US I	DOT):					
DO	T Prope	r Shipping Name:	Not dangerous goods.					
DO	T Hazaro	d Class:						
UN/	/NA Nun	nber:						
14.1	LAND T	RANSPORT (Euro	ppean ADR/RID):					
AD	R/RID SI	hipping Name:	Not dangerous goods.					
-	Number							
	zard Cla							
		ANSPORT (ICAO/I	-					
		Shipping Name:						
Additio nforma	onal Trar	nsport	Transport in accordance with I	ocal, state, and fee	leral regulations.			
morma	ation:		Ocation 45 Dam		(
			Section 15. Regu		nation			
	ARA (Su	- i	ents and Reauthorization Act	-				
CAS #			ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ		3 (TRI)	
N	NA Stop Solution			No	No	No		
CAS #			ponents (Chemical Name)	Other US EPA				
N	NA	Stop Solution		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				



Page: 5 of 5

Regulatory Information Statement:	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.
Statement.	
Devision Deter	Section 16. Other Information
Revision Date:	12/20/2016
Additional Information About This Product:	No data available.
Company Policy or Disclaimer:	DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.



Revision: 01/04/2017

	according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008						
		Section 1. Ide	ntification of the Substan	ce/Mixture and of t	he Company/Ur	ndertaking	
1.1	Product Product		401520 NGAL (monkey) Precoate	ed Plate + Frame			
1.2	Relevan	t identified uses of th	ne substance or mixture a	nd uses advised ag	gainst:		
	Releva	ant identified uses:	For research use only, no	ot for human or veter	inary use.		
1.3	Details of	of the Supplier of the	Safety Data Sheet:				
	Comp	any Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	any			
	Web s	ite address:	www.caymanchem.com				
	Inform	ation:	Cayman Chemical Comp	any	+1 (734	4)971-3335	
1.4	-	ncy telephone numbe ency Contact:	er: CHEMTREC Within USA CHEMTREC Outside US			0)424-9300 3)527-3887	
			Section 2. Haz	zards Identific	ation		
2.1	Classifi	cation of the Substan	ce or Mixture:				
2.2	Label E	ements:					
	GHS S	ignal Word:	None				
	GHS H	lazard Phrases:					
	Based	on evaluation of curre	ntly available data this sub	stance or mixture is r	not classifiable ac	cording to GHS.	
	GHS F	Precaution Phrases:					
		rases apply.					
		Response Phrases:					
		rases apply.					
		Storage and Disposal		Dian agal information			
2.3			Storage and Section 13 for aterial may be irritating to tl	•		niratory tract	
2.0			ay be harmful by inhalation			piratory radi.	
		, 1	ay cause eye, skin, or resp		•		
		Тс	o the best of our knowledge	, the toxicological pro	operties have not	been thoroughly investigated.	
		Section	n 3. Composition	/Information of	on Ingredie	nts	
CAS RTE	#/ CS #	Hazardous Compon REACH Registration	ents (Chemical Name)/ 1 No.	Concentration	EC No./ EC Index No.	GHS Classification	
NA NA	(),		ted Plate + Frame	100.0 %	NA NA	No data available.	



Revision: 01/04/2017

		Section 4. First Aid Measures
4.1	Description of First Aid	
	Measures:	
	In Case of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.
	In Case of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.
	In Case of Eye Contact:	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.
	In Case of Ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.
		Section 5. Fire Fighting Measures
5.1	Suitable Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
	Media:	Use water spray to cool fire-exposed containers.
	Unsuitable Extinguishing Media:	g A solid water stream may be inefficient.
5.2	Flammable Properties an Hazards:	I d No data available.
		No data available.
	Flash Pt:	No data.
	Explosive Limits:	LEL: No data. UEL: No data.
	Autoignition Pt:	No data.
5.3	Fire Fighting Instructions	s: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.
		Section 6. Accidental Release Measures
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.
	Protective Equipment an	d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,
	Emergency Procedures:	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
6.2	Environmental Precautions:	Take steps to avoid release into the environment, if safe to do so.
6.3	Methods and Material Fo	r Contain spill and collect, as appropriate.
	Containment and Cleanir	hgTransfer to a chemical waste container for disposal in accordance with local regulations.
	Up:	
		Section 7. Handling and Storage
7.1	Precautions To Be Taker	Avoid breathing dust/fume/gas/mist/vapours/spray.
	in Handling:	Avoid prolonged or repeated exposure.
7.2	Precautions To Be Taker	NKeep container tightly closed.
	in Storing:	Store in accordance with information listed on the product insert.
	Sec	tion 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	



	HEMICAL	
8.2	Exposure Controls:	
8.2.1	Engineering Controls (Ventilation etc.):	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.
8.2.2	Personal protection equi	pment:
	Eye Protection:	Safety glasses
	Protective Gloves:	Compatible chemical-resistant gloves
	Other Protective Clothing	
	Respiratory Equipment	NIOSH approved respirator, as conditions warrant.
	(Specify Type):	
	Work/Hygienic/Maintenar	n Do not take internally.
	ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower
		Wash thoroughly after handling.
		No data available.
	S	ection 9. Physical and Chemical Properties
		•
9.1	-	sical and Chemical Properties
	Physical States:	[]Gas []Liquid [X]Solid
	Appearance and Odor:	Plate and Frame
	pH:	No data.
	Melting Point:	No data.
	Boiling Point:	No data.
	Flash Pt:	No data.
	Evaporation Rate:	No data.
	Flammability (solid, gas)	
	Explosive Limits:	LEL: No data. UEL: No data.
	Vapor Pressure (vs. Air o Hg):	or mm No data.
	Vapor Density (vs. Air = 1	I): No data.
	Specific Gravity (Water =	1): No data.
	Solubility in Water:	No data.
	Octanol/Water Partition Coefficient:	No data.
	Autoignition Pt:	No data.
	Decomposition Temperat	ture: No data.
	Viscosity:	No data.
9.2	Other Information	
	Percent Volatile:	No data.
		Section 10. Stability and Reactivity
10.1	Reactivity:	No data available.
10.2	Stability:	Unstable [] Stable [X]
10.3	Stability Note(s):	Stable if stored in accordance with information listed on the product insert.
	Polymerization:	Will occur [] Will not occur [X]
10.4	Conditions To Avoid:	No data available.
10.5	Incompatibility - Material	s No data available.
-	To Avoid:	
10.6	Hazardous	No data available.
-		
		Multi-region forma



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			Section 11. Toxico	ological Inform	nation			
1.1	Informat Toxicolo	tion on ogical Effects:	The toxicological effects of this	product have not be	en thoroughly st	udied.		
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
	NA	NGAL (monkey)	Precoated Plate + Frame	n.a.	n.a.	n.a.	n.a.	
			Section 12. Ecol	ogical Informa	ation			
2.1	Toxicity	:	Avoid release into the environr	nent.				
			Runoff from fire control or dilution water may cause pollution.					
12.2	Persiste	ence and	No data available.					
	Degradability:							
2.3	Bioaccu	mulative	No data available.					
	Potentia	d:						
2.4	Mobility	in Soil:	No data available.					
2.5	Results	of PBT and vPvB	No data available.					
assessment:								
2.6	Other ac	dverse effects:	No data available.					
			Section 13. Dispo	sal Considera	ations			
3.1	Waste D	isposal Method:	Dispose in accordance with loc	cal, state, and federa	l regulations.			
			Section 14. Trar	nsport Informa	ation			
14.1	LAND T	RANSPORT (US I	DOT):					
D	OT Prope	r Shipping Name	Not dangerous goods.					
D	OT Hazar	d Class:						
U	N/NA Nur	nber:						
14.1	LAND T	RANSPORT (Euro	opean ADR/RID):					
Α	DR/RID S	hipping Name:	Not dangerous goods.					
U	N Numbe	r:						
Н	azard Cla	SS:						
14.3	AIR TR	ANSPORT (ICAO/	IATA):					
IC	CAO/IATA	Shipping Name:	Not dangerous goods.					
	tional Tra	nsport	Transport in accordance with I	ocal, state, and fede	ral regulations.			
Infor	mation:							
			Section 15. Regu	latory Inform	ation			
EPA	SARA (Su	perfund Amendm	nents and Reauthorization Act	of 1986) Lists				
CAS #		Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313	3 (TRI)	
	NA	NGAL (monkey)	Precoated Plate + Frame	No	No	No		
CAS	#	Hazardous Com	ponents (Chemical Name)	Other US EPA o	r State Lists	•		
	NA NGAL (monkey) Precoated Plate + Frame		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No					



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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:	01/04/2017
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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	according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008					
		Section 1.	Identification of the Substar	nce/Mixture and of t	the Company/Ur	ndertaking
1.1	Product Product		401521 NGAL (monkey) Calibrat	or (1,000 pg/ml)		
1.2	Relevan	t identified uses c	of the substance or mixture a	and uses advised ag	gainst:	
	Releva	int 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:			
	Company Name:Cayman Chemical Company1180 E. Ellsworth Rd.Ann Arbor, MI 48108					
	Web s	ite address:	www.caymanchem.com			
	Inform	ation:	Cayman Chemical Comp	pany	+1 (734	4)971-3335
1.4	-	ncy telephone nur	mber:			
	Emerg	ency Contact:	CHEMTREC Within USA		-	0)424-9300
			CHEMTREC Outside US			3)527-3887
			Section 2. Haz	zards Identific	cation	
2.1	Classific	cation of the Subs	stance or Mixture:			
2.2	Label El	ements:				
	GHS Signal Word: None GHS Hazard Phrases: Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS. GHS Precaution Phrases: No phrases apply.				cording to GHS.	
	GHS F	Response Phrases	5:			
		ases apply.				
	GHS S	Storage and Dispo	osal Phrases:			
	Please	e refer to Section 7	for Storage and Section 13 for	Disposal information	٦.	
2.3	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. To the best of our knowledge, the toxicological properties have not been thoroughly investigated.					
		Sect	tion 3. Composition	/Information of	on Ingredie	nts
CAS RTE		Hazardous Comp REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification
NA NA			ibrator (1,000 pg/ml)	100.0 %	NA NA	No data available.



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		Section 4. First Aid Measures
4.1	Description of First Aid	
	Measures:	
	In Case of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.
	In Case of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.
	In Case of Eye Contact:	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.
	In Case of Ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.
		Section 5. Fire Fighting Measures
5.1	Suitable Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
	Media:	Use water spray to cool fire-exposed containers.
	Unsuitable Extinguishing Media:	A solid water stream may be inefficient.
5.2	Flammable Properties an Hazards:	dNo data available.
		No data available.
	Flash Pt:	No data.
	Explosive Limits:	LEL: No data. UEL: No data.
	Autoignition Pt:	No data.
5.3	Fire Fighting Instructions	s: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.
		Section 6. Accidental Release Measures
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.
	Protective Equipment an	d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,
	Emergency Procedures:	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
6.2	Environmental Precautions:	Take steps to avoid release into the environment, if safe to do so.
6.3	Methods and Material Fo	r Contain spill and collect, as appropriate.
	Containment and Cleanir	ng 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.
	Sec	tion 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	



8.2	Exposure Controls:					
8.2.1	Engineering Controls (Ventilation etc.):	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.				
8.2.2	Personal protection equipment:					
	Eye Protection:	Safety glasses				
	Protective Gloves:	Compatible chemical-resistant gloves				
	Other Protective Clothing	j:Lab coat				
	Respiratory Equipment	NIOSH approved respirator, as conditions warrant.				
	(Specify Type):					
	Work/Hygienic/Maintenar	Do not take internally.				
	ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower				
		Wash thoroughly after handling.				
		No data available.				
	S	ection 9. Physical and Chemical Properties				
9.1	Information on Basic Phys	sical and Chemical Properties				
	Physical States:	[]Gas [X]Liquid []Solid				
	Appearance and Odor:	A liquid				
	pH:	No data.				
	Melting Point:	No data.				
	Boiling Point:	No data.				
	Flash Pt:	No data.				
	Evaporation Rate:	No data.				
	Flammability (solid, gas):	No data available.				
	Explosive Limits:	LEL: No data. UEL: No data.				
	Vapor Pressure (vs. Air o Hg):	r mm No data.				
	Vapor Density (vs. Air = 1): No data.				
	Specific Gravity (Water =	1): No data.				
	Solubility in Water:	No data.				
	Octanol/Water Partition	No data.				
	Coefficient:					
	Autoignition Pt:	No data.				
	Decomposition Temperat	ure: No data.				
	Viscosity:	No data.				
9.2	Other Information					
J.2	Percent Volatile:	No data.				
		Section 10. Stability and Reactivity				
10.1	Reactivity:	No data available.				
10.2	Stability:	Unstable [] Stable [X]				
10.3	Stability Note(s):	Stable if stored in accordance with information listed on the product insert.				
	Polymerization:	Will occur [] Will not occur [X]				
10.4	Conditions To Avoid:	No data available.				
-						
10.5	Incompatibility - Materials To Avoid:					
10 F		No data available.				
10.6	Hazardous					
		Multi-region forma				



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	Byproducts:								
	Section 11. Toxicological Information								
11.1									
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
	NA	NGAL (monkey)	Calibrator (1,000 pg/ml)	n.a.	n.a.	n.a.	n.a.		
		·	Section 12. Ecol	ogical Inforr	nation				
12.1	Toxicity	:		woid 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	1:							
12.4	Mobility	in Soil:	No data available.						
12.5	Results	of PBT and vPvB	No data available.						
	assessn	nent:							
12.6	Other ac	lverse effects:	No data available.						
			Section 13. Dispo	sal Conside	erations				
13.1	Waste D	isposal Method:	Dispose in accordance with loc	cal, state, and fede	eral regulations.				
	Section 14. Transport Information								
14.1	LAND T	RANSPORT (US I	DOT):						
0	DOT Proper Shipping Name: Not dangerous goods.								
0	OT Hazar	d Class:							
ι	JN/NA Nun	nber:							
14.1	14.1 LAND TRANSPORT (European ADR/RID):								
A	ADR/RID Shipping Name: Not dangerous goods.								
ι	UN Number:								
ŀ	lazard Cla	SS:							
	14.3 AIR TRANSPORT (ICAO/IATA):								
	ICAO/IATA Shipping Name: Not dangerous goods.								
	Additional Transport Transport in accordance with local, state, and federal regulations.								
Infor	mation:								
			Section 15. Regu	latory Infor	mation				
EPA	SARA (Su	perfund Amendm	ents and Reauthorization Act	of 1986) Lists					
CAS	#	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 31	3 (TRI)		
	NA	NGAL (monkey) Calibrator (1,000 pg/ml)		No	No	No			
CAS	#	Hazardous Components (Chemical Name)		Other US EPA or State Lists					
	NA	NGAL (monkey)	Calibrator (1,000 pg/ml)	CAA HAP,OD PROP.65: No	C: No; CWA NPE	DES: No; TSCA	: No; CA		
		•		1					



Revision: 01/04/2017

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:	01/04/2017
Additional Information About	No data available.
This Product:	
Company Policy or Disclaimer:	DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.



Revision: 01/04/2017

	according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008						
		Section 1. Ide	ntification of the Substan	ce/Mixture and of t	he Company/Ur	ndertaking	
1.1	Product	Code:	401522				
	Product	Name:	NGAL (monkey) Biotinyla	ited Antibody			
1.2							
	Releva	nt identified uses:	For research use only, no	ot for human or veteri	inary use.		
1.3	Details o	of the Supplier of the	Safety Data Sheet:				
	Compa	any Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	any			
Web sit		te address:	www.caymanchem.com				
	Inform	ation:	Cayman Chemical Comp	any	+1 (734	4)971-3335	
1.4	-	ncy telephone numbe	er:				
	Emerg	ency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:			+1 (800)424-9300	
)3)527-3887	
			Section 2. Haz	zards Identific	ation		
2.1	Classific	ation of the Substan	ce or Mixture:				
2.2	Label El	ements:					
2.3	GHS Signal Word: None GHS Hazard Phrases: Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS. GHS Precaution Phrases: No phrases apply. GHS Response Phrases: No phrases apply. GHS Storage and Disposal Phrases: Please refer to Section 7 for Storage and Section 13 for Disposal information. 2.3 Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract.						
2.5	Effects and Symptoms: May be harmful by inhalation, ingestion, or skin absorption.						
	May cause eye, skin, or respiratory system irritation. To the best of our knowledge, the toxicological properties have not been thoroughly investigated.						
	Section 3. Composition/Information on Ingredients						
CAS # / Hazardous Components (Chemical Name)/ Concentration EC No./ GHS Classification RTECS # REACH Registration No. EC Index No. EC Index No.					GHS Classification		
NA NA		NGAL (monkey) Biotinyla	ated Antibody	100.0 %	NA NA	No data available.	



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		Section 4. First Aid Measures
4.1	Description of First Aid	
	Measures:	
	In Case of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.
	In Case of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.
	In Case of Eye Contact:	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.
	In Case of Ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.
		Section 5. Fire Fighting Measures
5.1	Suitable Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
	Media:	Use water spray to cool fire-exposed containers.
	Unsuitable Extinguishing Media:	a A solid water stream may be inefficient.
5.2	Flammable Properties an Hazards:	dNo data available.
		No data available.
	Flash Pt:	No data.
	Explosive Limits:	LEL: No data. UEL: No data.
	Autoignition Pt:	No data.
5.3	Fire Fighting Instructions	s: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.
		Section 6. Accidental Release Measures
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.
	Protective Equipment an	d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,
	Emergency Procedures:	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
6.2	Environmental Precautions:	Take steps to avoid release into the environment, if safe to do so.
6.3	Methods and Material Fo	r Contain spill and collect, as appropriate.
	Containment and Cleanir Up:	hgTransfer to a chemical waste container for disposal in accordance with local regulations.
		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		Keep container tightly closed.
	in Storing:	Store in accordance with information listed on the product insert.
	Sec	tion 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	



	Fundation Controlat					
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	g:Lab coat				
	Respiratory Equipment	NIOSH approved respirator, as conditions warrant.				
	(Specify Type):					
	Work/Hygienic/Maintenar	n Do not take internally.				
	ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower				
		Wash thoroughly after handling.				
		No data available.				
	S	ection 9. Physical and Chemical Properties				
9.1	Information on Basic Phy	sical and Chemical Properties				
	Physical States:	[]Gas [X]Liquid []Solid				
	Appearance and Odor:	A liquid				
	pH:	No data.				
	Melting Point:	No data.				
	Boiling Point:	No data.				
	Flash Pt:	No data.				
	Evaporation Rate:	No data.				
	Flammability (solid, gas)	No data available.				
	Explosive Limits:	LEL: No data. UEL: No data.				
	Vapor Pressure (vs. Air o	or mm No data.				
	Hg):					
	Vapor Density (vs. Air = 1	1): No data.				
	Specific Gravity (Water =					
	Solubility in Water:	No data.				
	Octanol/Water Partition	No data.				
	Coefficient:					
	Autoignition Pt:	No data.				
	-					
	Decomposition Temperat Viscosity:	No data.				
	-	NU Uala.				
9.2	Other Information					
	Percent Volatile:	No data.				
		Section 10. Stability and Reactivity				
10.1	Reactivity:	No data available.				
10.2	Stability:	Unstable [] Stable [X]				
10.3	Stability Note(s):	Stable if stored in accordance with information listed on the product insert.				
	Polymerization:	Will occur [] Will not occur [X]				
10.4	Conditions To Avoid:	No data available.				
10.5	Incompatibility - Material	s No data available.				
	To Avoid:					
10.6	Hazardous	No data available.				
		Multi-region forma				



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SAFETY DATA SHEET NGAL (monkey) Biotinylated Antibody

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CAS # NA 12.1 Toxicity 12.2 Persiste Degrada 12.3 Bioaccu Potentia 12.4 Mobility 12.5 Results assessm 12.6 Other ac 13.1 Waste D 14.1 LAND T DOT Prope DOT Hazard UN/NA Nun 14.1 LAND T	bigical Effects: Hazardous Components (Chemical Name) NGAL (monkey) Biotinylated Antibody Section 12. Ecolo : Avoid release into the environm Runoff from fire control or dilution ince and No data available. ability: No data available. in Soil: No data available. of PBT and vPvB No data available.	product have not be NTP n.a. Ogical Information nent. Ton water may cause Sal Consideration sal state, and federal	en thoroughly stu IARC n.a. Ition pollution.	Idied.	OSHA n.a.
Toxicolo CAS # NA 12.1 Toxicity: 12.2 Persiste Degrada 12.3 Bioaccu Potentia 12.4 Mobility 12.5 Results assessm 12.6 Other ac 13.1 Waste D 14.1 LAND T DOT Prope DOT Hazard UN/NA Num 14.1 LAND T ADR/RID Si	bgical Effects: Hazardous Components (Chemical Name) NGAL (monkey) Biotinylated Antibody Section 12. Ecolo : Avoid release into the environm Runoff from fire control or dilution ince and No data available. ability: No data available. in Soil: No data available. of PBT and vPvB No data available. hent: Section 13. Dispose isposal Method: Dispose in accordance with loc	NTP n.a. Ogical Informa nent. ion water may cause sal Considera	IARC n.a. Ition pollution.	ACGIH	
NA 12.1 Toxicity 12.2 Persiste Degrada 12.3 Bioaccu Potentia 12.4 Mobility 12.5 Results assessm 12.6 Other ac 13.1 Waste D 14.1 LAND T DOT Prope DOT Hazard UN/NA Num 14.1 LAND T ADR/RID Si	NGAL (monkey) Biotinylated Antibody Section 12. Ecolo Section 12. Ecolo Colspan="2">Section 12. Ecolo Section 12. Ecolo Runoff rom fire control or dilution Runoff from fire control or dilution No data available. mulative No data available. in Soil: No data available. of PBT and vPvB No data available. Meerse effects: No data available. Section 13. Dispose bisposal Method:	n.a. Dgical Information nent. ion water may cause sal Consideration sal state, and federation	n.a. Ition pollution.		
12.1 Toxicity 12.2 Persiste Degrada 12.3 Bioaccu Potentia 12.4 Mobility 12.5 Results assessm 12.6 Other ac 13.1 Waste D 14.1 LAND T DOT Prope DOT Hazard UN/NA Num 14.1 LAND T ADR/RID S	Section 12. Ecolo Section 12. Ecolo Section 12. Ecolo Colspan="2">Section 12. Ecolo Runoff from fire control or dilution Runoff from fire control or dilution No data available. Image: Section 13. Dispose Method: Dispose in accordance with loc	Dgical Information nent. ion water may cause sal Consideration cal, state, and federal	ition pollution.	n.a.	n.a.
12.2 Persiste Degrada 12.3 Bioaccu Potentia 12.4 Mobility 12.5 Results assessm 12.6 Other ac 13.1 Waste D 14.1 LAND T DOT Prope DOT Hazard UN/NA Num 14.1 LAND T	: Avoid release into the environm Runoff from fire control or dilution ince and No data available. Ability: Mulative No data available. Al: In Soil: No data available. Of PBT and vPvB No data available. Mo data available. Mo data available. Section 13. Dispose Misposal Method: Dispose in accordance with loc	nent. ion water may cause sal Considera cal, state, and federal	pollution.		
12.2 Persiste Degrada 12.3 Bioaccu Potentia 12.4 Mobility 12.5 Results assessm 12.6 Other ac 13.1 Waste D 14.1 LAND T DOT Prope DOT Hazard UN/NA Nun 14.1 LAND T	Runoff from fire control or dilution nce and No data available. bility: mulative No data available. in Soil: No data available. of PBT and vPvB No data available. nent: dverse effects: No data available. Section 13. Dispose isposal Method: Dispose in accordance with loc	sal Considera	tions		
Degrada 12.3 Bioaccu Potentia 12.4 Mobility 12.5 Results assessm 12.6 Other ac 13.1 Waste D 14.1 LAND T DOT Prope DOT Hazard UN/NA Num 14.1 LAND T	Ince and No data available. Inbility: mulative No data available. I: in Soil: No data available. of PBT and vPvB No data available. Inent: Iverse effects: No data available. Section 13. Dispose isposal Method: Dispose in accordance with loc	sal Considera	tions		
Degrada 12.3 Bioaccu Potentia 12.4 Mobility 12.5 Results assessm 12.6 Other ac 13.1 Waste D 14.1 LAND T DOT Prope DOT Hazard UN/NA Num 14.1 LAND T ADR/RID S	ability: No data available. mulative No data available. in Soil: No data available. of PBT and vPvB No data available. nent: No data available. dverse effects: No data available. Section 13. Dispose Dispose in accordance with loc	al, state, and federal			
12.3 Bioaccu Potentia 12.4 Mobility 12.5 Results assessm 12.6 Other ac 13.1 Waste D 14.1 LAND T DOT Prope DOT Hazard UN/NA Nun 14.1 LAND T ADR/RID S	mulative No data available. iii No data available. in Soil: No data available. of PBT and vPvB No data available. nent: No data available. dverse effects: No data available. Section 13. Dispose isposal Method: Dispose in accordance with loc	al, state, and federal			
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14.1 LAND T DOT Prope DOT Hazar UN/NA Nun 14.1 LAND T ADR/RID S	-		regulations.		
DOT Prope DOT Hazar UN/NA Nun 14.1 LAND T ADR/RID S	Section 14. Tran		0		
DOT Prope DOT Hazar UN/NA Nun 14.1 LAND T ADR/RID S		nsport Informa	ition		
DOT Hazar UN/NA Nun 14.1 LAND T ADR/RID S	RANSPORT (US DOT):				
DOT Hazar UN/NA Nun 14.1 LAND T ADR/RID S	r Shipping Name: Not dangerous goods.				
14.1 LAND T ADR/RID S					
ADR/RID S	nber:				
ADR/RID S	RANSPORT (European ADR/RID):				
	hipping Name: Not dangerous goods.				
UN Number					
Hazard Cla	SS:				
14.3 AIR TRA	ANSPORT (ICAO/IATA):				
ICAO/IATA	Shipping Name: Not dangerous goods.				
Additional Tran	nsport Transport in accordance with lo	ocal, state, and feder	al regulations.		
Information:					
	Section 15. Regu	latory Informa	ation		
EPA SARA (Su	perfund Amendments and Reauthorization Act	•			
CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 31	3 (TRI)
NA	NGAL (monkey) Biotinylated Antibody	No	No	No	
CAS #	Hazardous Components (Chemical Name)	Other US EPA or	State Lists	•	
NA				S: No; TSCA	No; CA



Revision: 01/04/2017

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:	01/04/2017
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.