

SAFETY DATA SHEET TR-FRET Assay Buffer (10X)

Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108

Revision: 03/18/2013 Supercedes Revision: 07/09/2012

Product Code:	600503				
Product Name:	TR-FRET Assay	Buffer (10X)			
Intended Use:	For research use of	only, not for human	or veterinary use.		
Manufacturer Information					
Company Name:	Cayman Chemica	al Company			
Emergency Contact:	CHEMTREC Wit	thin USA and Cana	uda: +1 (800)4	424-9300	
Alternate Emergency Contact:	CHEMTREC Out	tside USA and Can	ada: +1 (703).	527-3887	
Information:	Cayman Chemica	al Company	+1 (734)971-33	335	
Web site address:	www.caymanche	m.com			
	2. Hazaı	rds Identific	ation		
GHS Hazard Phrases:	Based on evaluati according to GHS	•	ilable data this sub	stance or mixture is not c	lassifiable
GHS Precaution Phrases:	No data available				
GHS Response Phrases:	No data available				
GHS Storage and Disposal Phrases:	Please refer to Se	ction 7 for Storage	and Section 13 for	Disposal information.	
Route(s) of Entry:	Inhalation? Yes	Skin? Yes Eye	es? Yes Ingestio	on? Yes Other: Injection	on
Potential Health Effects (Acute and Chronic):	May be harmful b	-		d upper respiratory tract.	
	May cause eye, sl	kin, or respiratory s	-	tion.	
Target Organs:	May cause eye, sl No data available	kin, or respiratory s	-	tion.	
	No data available	kin, or respiratory s	ystem irritation.	tion. ies have not been thoroug	hly investiga
Target Organs: Signs and Symptoms Of Exposure: Medical Conditions Generally Aggravated By Exposure:	No data available To the best of our	kin, or respiratory s . knowledge, the to:	ystem irritation.		hly investiga
Signs and Symptoms Of Exposure: Medical Conditions Generally Aggravated By Exposure:	No data available To the best of our	kin, or respiratory s . knowledge, the to:	ystem irritation.	ies have not been thoroug	hly investiga
Signs and Symptoms Of Exposure: Medical Conditions Generally Aggravated By Exposure:	No data available To the best of our No data available	kin, or respiratory s . knowledge, the to:	ystem irritation.	ies have not been thoroug	hly investiga
Signs and Symptoms Of Exposure: Medical Conditions Generally Aggravated By Exposure: 3. COr Hazardous Components (Chemical Name) . HEPES, free acid	No data available To the best of our No data available mposition/Ir CAS # 7365-45-9	kin, or respiratory s knowledge, the to: formation (Concentration < 1.0 %	ystem irritation. xicological propertion DN Ingredie EC# 230-907-9	nts No phrases apply.	RTECS # TL6809000
Signs and Symptoms Of Exposure: Medical Conditions Generally Aggravated By Exposure: 3. COI Hazardous Components (Chemical Name) . HEPES, free acid 2. Sodium chloride	No data available To the best of our No data available mposition/Ir CAS # 7365-45-9 7647-14-5	kin, or respiratory s knowledge, the to: formation (concentration < 1.0 %	ystem irritation. xicological properti Dn Ingredie EC# 230-907-9 231-598-3	nts Risk Phrases No phrases apply. R36	RTECS # TL6809000 VZ4725000
Signs and Symptoms Of Exposure: Medical Conditions Generally Aggravated By Exposure: 3. COI Hazardous Components (Chemical Name) . HEPES, free acid 2. Sodium chloride	No data available To the best of our No data available mposition/Ir CAS # 7365-45-9 7647-14-5 7732-18-5	kin, or respiratory s knowledge, the to: formation (concentration < 1.0 % < 1.0 % >98.0 %	ystem irritation. xicological properti DN Ingredie 230-907-9 231-598-3 231-791-2	nts No phrases apply.	RTECS # TL6809000
Signs and Symptoms Of Exposure: Medical Conditions Generally Aggravated By Exposure: 3. CON Hazardous Components (Chemical Name) . HEPES, free acid 2. Sodium chloride 3. Water	No data available To the best of our No data available mposition/Ir CAS # 7365-45-9 7647-14-5 7732-18-5	kin, or respiratory s knowledge, the to: formation (concentration < 1.0 %	ystem irritation. xicological properti DN Ingredie 230-907-9 231-598-3 231-791-2	nts Risk Phrases No phrases apply. R36	RTECS # TL6809000 VZ472500
Signs and Symptoms Of Exposure: Medical Conditions Generally Aggravated By Exposure: 3. CON Hazardous Components (Chemical Name) . HEPES, free acid . Sodium chloride . Water Emergency and First Aid Procedures:	No data available To the best of our No data available mposition/Ir CAS # 7365-45-9 7647-14-5 7732-18-5 4. First Remove to fresh a	kin, or respiratory s kin, or respiratory s knowledge, the tor formation Concentration < 1.0 % < 1.0 % >98.0 % t Aid Measu	ystem irritation. xicological properti Dn Ingredie 230-907-9 231-598-3 231-791-2 IFES , give artificial resp	nts Risk Phrases No phrases apply. R36	RTECS # TL6809000 VZ472500 ZC011000
Signs and Symptoms Of Exposure: Medical Conditions Generally Aggravated By Exposure: 3. Cor Hazardous Components (Chemical Name) . HEPES, free acid . Sodium chloride . Water Emergency and First Aid Procedures: In Case of Inhalation:	No data available To the best of our No data available mposition/Ir CAS # 7365-45-9 7647-14-5 7732-18-5 4. First Remove to fresh a personnel. Get im Immediately was	kin, or respiratory s kin, or respiratory s knowledge, the tor formation Concentration < 1.0 % < 1.0 % >98.0 % Aid Measu air. If not breathing mediate medical at h skin with soap an	ystem irritation. xicological properti on Ingredie 230-907-9 231-598-3 231-791-2 Ires , give artificial resp tention. d plenty of water for	nts Risk Phrases No phrases apply. R36 No phrases apply.	RTECS # TL6809000 VZ472500 ZC011000 / trained move
Signs and Symptoms Of Exposure: Medical Conditions Generally Aggravated By Exposure: 3. CON Hazardous Components (Chemical Name) . HEPES, free acid 2. Sodium chloride	No data available To the best of our No data available mposition/Ir CAS # 7365-45-9 7647-14-5 7732-18-5 4. First Remove to fresh a personnel. Get im Immediately wash contaminated clot Hold eyelids apar	kin, or respiratory s kin, or respiratory s knowledge, the tor formation Concentration < 1.0 % < 1.0 % >98.0 % Aid Measu air. If not breathing mediate medical at h skin with soap an- thing. Get medical a	ystem irritation. xicological properti on Ingredie EC# 230-907-9 231-598-3 231-791-2 IFES , give artificial resp tention. d plenty of water for attention if symptor th plenty of water for	nts Risk Phrases No phrases apply. R36 No phrases apply. piration or give oxygen by or at least 20 minutes. Reference of the second	RTECS # TL6809000 VZ472500 ZC011000 / trained move before reuse.



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Indication of any immediate medical attention and special treatment needed:	No data available			
·	5. Fire Fi	ighting Measur	es	
Suitable Extinguishing Media:		<u> </u>	e, water, or dry chemical spray	·.
		to cool fire-exposed conta		
Unsuitable Extinguishing Media:	A solid water stre	eam may be inefficient.		
Flammable Properties and Hazards:	No data available	-		
Flash Pt:	No data.			
Autoignition Pt:	No data available			
Explosive Limits:	LEL: No data.		: No data.	
-			. No data.	
Hazardous Combustion Products:	No data available			
Fire Fighting Instructions:	-		ng apparatus pressure-demand vent contact with skin and eye	
	6. Accidenta	al Release Mea	sures	
Protective Precautions, Protective	-	vapors and provide adequ		
Equipment and Emergency Procedures:			roved self-contained breathing	
			r boots, safety goggles, and he	eavy rubber gloves).
Environmental Precautions:	Take steps to avo	id release into the environ	nment, if safe to do so.	
Steps To Be Taken In Case Material Is	-	collect, as appropriate.		
Released Or Spilled:	Transfer to a cher	mical waste container for	disposal in accordance with lo	ocal regulations.
		line an an al Otana a		
	7. Hanu	ling and Storag	le	
Precautions To Be Taken in Handling:	Avoid breathing of	dust/fume/gas/mist/vapou		
Precautions To Be Taken in Handling:	Avoid breathing of			
Precautions To Be Taken in Handling: Precautions To Be Taken in Storing:	Avoid breathing o Avoid prolonged Keep container ti	dust/fume/gas/mist/vapou or repeated exposure. ghtly closed.	rs/spray.	
Precautions To Be Taken in Storing:	Avoid breathing of Avoid prolonged Keep container ti Store in accordan	dust/fume/gas/mist/vapou or repeated exposure. ghtly closed. ace with information listed	rs/spray. l on the product insert.	
-	Avoid breathing o Avoid prolonged Keep container ti	dust/fume/gas/mist/vapou or repeated exposure. ghtly closed. ice with information listed th skin and eyes. Do no	rs/spray. l on the product insert.	with adequate ventilation
Precautions To Be Taken in Storing: Hazard Label Information:	Avoid breathing of Avoid prolonged Keep container ti Store in accordan Avoid contact wi Wash thoroughly	dust/fume/gas/mist/vapou or repeated exposure. ghtly closed. ice with information listed th skin and eyes. Do no	rs/spray. I on the product insert. ot reuse this container. Use	with adequate ventilatio
Precautions To Be Taken in Storing: Hazard Label Information: 8. E	Avoid breathing of Avoid prolonged Keep container ti Store in accordan Avoid contact wi Wash thoroughly	dust/fume/gas/mist/vapou or repeated exposure. ghtly closed. ace with information listed th skin and eyes. Do no after handling.	rs/spray. I on the product insert. ot reuse this container. Use	
Precautions To Be Taken in Storing: Hazard Label Information: 8. E Hazardous Components (Chemical Name)	Avoid breathing of Avoid prolonged Keep container ti Store in accordan Avoid contact wi Wash thoroughly XPOSURE CON	dust/fume/gas/mist/vapou or repeated exposure. ghtly closed. ace with information listed th skin and eyes. Do no after handling. trols/Personal	rs/spray. I on the product insert. ot reuse this container. Use Protection	
Precautions To Be Taken in Storing: Hazard Label Information: 8. E: Hazardous Components (Chemical Name) 1. HEPES, free acid	Avoid breathing of Avoid prolonged Keep container ti Store in accordan Avoid contact wi Wash thoroughly XPOSURE CON CAS #	dust/fume/gas/mist/vapou or repeated exposure. ghtly closed. ace with information listed th skin and eyes. Do no after handling. trols/Personal OSHA PEL No data.	I on the product insert. The transmission of the transmission of transmis	Other Limits
Precautions To Be Taken in Storing: Hazard Label Information: 8. E: Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride 3. Water	Avoid breathing of Avoid prolonged Keep container ti Store in accordan Avoid contact wi Wash thoroughly XPOSURE CON CAS # 7365-45-9 7647-14-5 7732-18-5	dust/fume/gas/mist/vapou or repeated exposure. ghtly closed. ice with information listed th skin and eyes. Do no after handling. trols/Personal OSHA PEL No data. No data. No data.	I on the product insert. tot reuse this container. Use Protection ACGIH TLV No data. No data. No data.	Other Limits No data. No data. No data. No data.
Precautions To Be Taken in Storing: Hazard Label Information: 8. E Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride 3. Water Hazardous Components (Chemical Name)	Avoid breathing of Avoid prolonged Keep container ti Store in accordan Avoid contact wi Wash thoroughly XPOSURE CON CAS # 7365-45-9 7647-14-5 7732-18-5 CAS #	dust/fume/gas/mist/vapou or repeated exposure. ghtly closed. ice with information listed th skin and eyes. Do no after handling. trols/Personal OSHA PEL No data. No data. Britain EH40	rs/spray. d on the product insert. ot reuse this container. Use Protection ACGIH TLV No data. No data. No data. France VL	Other Limits No data. No data. No data. Europe
Precautions To Be Taken in Storing: Hazard Label Information: 8. E: Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride 3. Water Hazardous Components (Chemical Name) 1. HEPES, free acid	Avoid breathing of Avoid prolonged Keep container the Store in accordan Avoid contact wi Wash thoroughly XPOSURE CON CAS # 7365-45-9 7647-14-5 7732-18-5 CAS # 7365-45-9	dust/fume/gas/mist/vapou or repeated exposure. ghtly closed. ice with information listed th skin and eyes. Do no after handling. trols/Personal OSHA PEL No data. No data. Britain EH40 No data.	I on the product insert. tot reuse this container. Use Protection ACGIH TLV No data. No data. No data. France VL No data. No data.	Other Limits No data. No data. No data. Europe No data.
Precautions To Be Taken in Storing: Hazard Label Information: 8. E: Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride 3. Water Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride	Avoid breathing of Avoid prolonged Keep container ti Store in accordan Avoid contact wi Wash thoroughly XPOSURE CON CAS # 7365-45-9 7647-14-5 CAS # 7365-45-9 7365-45-9 7647-14-5	dust/fume/gas/mist/vapou or repeated exposure. ghtly closed. ice with information listed th skin and eyes. Do no after handling. trols/Personal OSHA PEL No data. No data. Britain EH40 No data. No data.	rs/spray. d on the product insert. bt reuse this container. Use Protection ACGIH TLV No data. No data. No data. France VL No data. No data. In No data.	Other Limits No data. No data. No data. Europe No data. No data.
Precautions To Be Taken in Storing: Hazard Label Information: 8. E Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride 3. Water Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride 3. Water	Avoid breathing of Avoid prolonged Keep container ti Store in accordan Avoid contact wi Wash thoroughly XPOSURE CON CAS # 7365-45-9 7647-14-5 CAS # 7365-45-9 7647-14-5 7365-45-9 7647-14-5 7732-18-5	dust/fume/gas/mist/vapou or repeated exposure. ghtly closed. ice with information listed th skin and eyes. Do no after handling. trols/Personal OSHA PEL No data. No data. Britain EH40 No data. No data. No data. No data.	I on the product insert. The product insert. The protection ACGIH TLV No data. No data. France VL No data. No data. No data. No data. No data. No data. No data. No data. No data. No data.	Other Limits No data. No data. No data. Europe No data. No data.
Precautions To Be Taken in Storing: Hazard Label Information: 8. E: Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride 3. Water Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride	Avoid breathing of Avoid prolonged Keep container the Store in accordan Avoid contact wi Wash thoroughly XPOSURE CON CAS # 7365-45-9 7647-14-5 7732-18-5 CAS # 7647-14-5 7732-18-5 Compatible chem	dust/fume/gas/mist/vapou or repeated exposure. ghtly closed. ice with information listed th skin and eyes. Do no after handling. trols/Personal OSHA PEL No data. No data. Britain EH40 No data. No data. No data. No data. No data.	rs/spray. d on the product insert. bt reuse this container. Use Protection ACGIH TLV No data. No data. No data. France VL No data. No data. In No data.	Other Limits No data. No data. No data. Europe No data. No data.
Precautions To Be Taken in Storing: Hazard Label Information: 8. E: Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride 3. Water Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride 3. Water Protective Equipment Summary - Hazard Label Information:	Avoid breathing of Avoid prolonged Keep container ti Store in accordan Avoid contact wi Wash thoroughly XPOSURE CON CAS # 7365-45-9 7647-14-5 7732-18-5 CAS # 7365-45-9 7647-14-5 7732-18-5 Compatible chem glasses Safety	dust/fume/gas/mist/vapou or repeated exposure. ghtly closed. ice with information listed th skin and eyes. Do no after handling. trols/Personal OSHA PEL No data. No data. No data. Britain EH40 No data. No data. No data. No data. No data. No data. No data. No data. No data. No data.	rs/spray. d on the product insert. bt reuse this container. Use Protection ACGIH TLV No data. No data. France VL No data. No data.	Other Limits No data. No data. No data. Europe No data. No data. Lab coat Safety
Precautions To Be Taken in Storing: Hazard Label Information: 8. E Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride 3. Water Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride 3. Water Protective Equipment Summary - Hazard	Avoid breathing of Avoid prolonged Keep container the Store in accordan Avoid contact wi Wash thoroughly XPOSURE CON CAS # 7365-45-9 7647-14-5 7732-18-5 CAS # 7365-45-9 7647-14-5 7732-18-5 Compatible cheme glasses Safety Use process enclo	dust/fume/gas/mist/vapou or repeated exposure. ghtly closed. ice with information listed th skin and eyes. Do no after handling. trols/Personal OSHA PEL No data. No data. No data. Britain EH40 No data. No data. No data. No data. No data. No data. No data. No data. No data. No data.	I on the product insert. I on the product insert. Dt reuse this container. Use Protection ACGIH TLV No data. No data. France VL No data. No data.	Other Limits No data. No data. No data. Europe No data. No data. No data. Lab coat Safety
Precautions To Be Taken in Storing: Hazard Label Information: 8. E: Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride 3. Water Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride 3. Water Protective Equipment Summary - Hazard Label Information:	Avoid breathing of Avoid prolonged Keep container ti Store in accordan Avoid contact wi Wash thoroughly XPOSURE CON CAS # 7365-45-9 7647-14-5 7732-18-5 CAS # 7365-45-9 7647-14-5 7732-18-5 Compatible chem glasses Safety Use process enclo levels below reco	dust/fume/gas/mist/vapou or repeated exposure. ghtly closed. ice with information listed th skin and eyes. Do no after handling. trols/Personal OSHA PEL No data. No data. No data. Britain EH40 No data. No data. No data. No data. No data. No data. No data. Shower in work area V ossures, local exhaust vent	I on the product insert. I on the product insert. Dt reuse this container. Use Protection ACGIH TLV No data. No data. France VL No data. No data.	Other Limits No data. No data. No data. Europe No data. No data. Lab coat Safety
Precautions To Be Taken in Storing: Hazard Label Information: 8. E: Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride 3. Water Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride 3. Water Protective Equipment Summary - Hazard Label Information: Engineering Controls (Ventilation etc.):	Avoid breathing of Avoid prolonged Keep container the Store in accordan Avoid contact wi Wash thoroughly XPOSURE CON CAS # 7365-45-9 7647-14-5 7732-18-5 CAS # 7365-45-9 7647-14-5 7732-18-5 Compatible cheme glasses Safety Use process enclosed	dust/fume/gas/mist/vapou or repeated exposure. ghtly closed. ice with information listed th skin and eyes. Do no after handling. trols/Personal OSHA PEL No data. No data. No data. Britain EH40 No data. No data. No data. No data. No data. No data. No data. No data. No data. No data. Shower in work area V posures, local exhaust vent mmended exposure limit	I on the product insert. I on the product insert. Dt reuse this container. Use Protection ACGIH TLV No data. No data. France VL No data. No data.	Other Limits No data. No data. No data. Europe No data. No data. Lab coat Safety
Precautions To Be Taken in Storing: Hazard Label Information: 8. E: Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride 3. Water Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride 3. Water Protective Equipment Summary - Hazard Label Information: Engineering Controls (Ventilation etc.): Eye Protection: Protective Gloves:	Avoid breathing of Avoid prolonged Keep container ti Store in accordan Avoid contact wi Wash thoroughly XPOSURE CON CAS # 7365-45-9 7647-14-5 7732-18-5 CAS # 7365-45-9 7647-14-5 7732-18-5 Compatible chem glasses Safety Use process enclo levels below reco Safety glasses Compatible chem	dust/fume/gas/mist/vapou or repeated exposure. ghtly closed. ice with information listed th skin and eyes. Do no after handling. trols/Personal OSHA PEL No data. No data. No data. Britain EH40 No data. No data. No data. No data. No data. No data. No data. Shower in work area V ossures, local exhaust vent	I on the product insert. I on the product insert. Dt reuse this container. Use Protection ACGIH TLV No data. No data. France VL No data. No data.	Other Limits No data. No data. No data. Europe No data. No data. No data. Lab coat Safety
Precautions To Be Taken in Storing: Hazard Label Information: 8. E: Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride 3. Water Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride 3. Water Protective Equipment Summary - Hazard Label Information: Engineering Controls (Ventilation etc.): Eye Protection:	Avoid breathing of Avoid prolonged Keep container the Store in accordan Avoid contact wi Wash thoroughly XPOSURE CON CAS # 7365-45-9 7647-14-5 7732-18-5 CAS # 7365-45-9 7647-14-5 7732-18-5 Compatible cheme glasses Safety Use process enclor levels below reco Safety glasses Compatible cheme Lab coat	dust/fume/gas/mist/vapou or repeated exposure. ghtly closed. ice with information listed th skin and eyes. Do no after handling. trols/Personal OSHA PEL No data. No data. No data. Britain EH40 No data. No data. No data. No data. No data. No data. No data. No data. No data. No data. Shower in work area V posures, local exhaust vent mmended exposure limit	rs/spray. I on the product insert. ot reuse this container. Use Protection ACGIH TLV No data. No data. No data. France VL No data. No data. No data. No data. No data. No data. No data. Secondaria (Secondaria) No data. No data. No data. No data. No data. Secondaria (Secondaria) No data. No data. No data. No data. Secondaria (Secondaria) No data. No data. No data. No data. No data. Secondaria (Secondaria) No data. Secondaria (Secondaria) No data. No data.	No data.No data.EuropeNo data.No data.No data.No data.Lab coatSafety



SAFETY DATA SHEET **TR-FRET Assay Buffer (10X)**

Cayman	TR-FRE	T Assay	Buffer (10X)		Revision: 03/18/2013 Revision: 07/09/2012
Work/Hygienic/Maintenance Practices:	Do not take interr	nallv.		Supercedes i	(evision: 07/03/2012
		-	s material should be e	quipped with an eyew	ash and a safety
	shower.	<u> </u>			
	Wash thoroughly	_	ŗ.		
Environmental Exposure Controls:	No data available	•			
9.	Physical an	d Chem	cal Propertie	S	
Information on Basic Physical and Chemica	l Properties				
Physical States:	[] Gas [X]	Liquid [] Solid		
Appearance and Odor:	No data available				
pH:	8.0				
Melting Point:	No data.				
Boiling Point:	No data.				
Flash Pt:	No data.				
Evaporation Rate:	No data.				
Vapor Pressure (vs. Air or mm Hg):	No data.				
Vapor Density (vs. Air = 1):	No data.				
Specific Gravity (Water = 1):	No data.				
Solubility in Water:	No data.				
Autoignition Pt:	No data.				
Explosive Properties:	No data available				
Oxidizing Properties:	No data available				
Other Information					
Percent Volatile:	No data.				
	10. Stabil	ity and F	Reactivity		
Reactivity:	No data available				
Stability:	Unstable []	Stable [X]			
Stability Note(s):	Stable if stored in	accordance v	vith information listed	on the product insert.	
Conditions To Avoid:	No data available				
Polymerization:	Will occur []	Will not oc	cur [X]		
Incompatibility - Materials To Avoid:	No data available				
Hazardous Decomposition Or Byproducts:	No data available				
	11. Toxicol	logical Ir	formation		
Toxicological Information:	The toxicological	effects of this	s product have not been	n thoroughly studied.	
Chronic Toxicological Effects:	No data available				
Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1. HEPES, free acid	7365-45-9	n.a.	n.a.	n.a.	n.a.
2. Sodium chloride	7647-14-5		n.a.	n.a.	n.a.
3. Water Carcinogenicity:	7732-18-5 NTP? No IA	n.a. RC Monogra	n.a.	n.a. legulated? No	n.a.
	1011.100	ite monograj		egulated. 10	



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Revisi	ion: 03/18/2013	6
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	12. Ecolo	gical Inform	nation		
General Ecological Information:		o the environment.			
-	Runoff from fire	control or dilution v	water may cause poll	ution.	
	13 Dispos	al Conside	rations		
Waste Disposal Method:	•		te, and federal regul	ations	
	-			ations.	
	14. Trans	sport Inform	ation		
LAND TRANSPORT (US DOT)					
DOT Proper Shipping Name	Not dangerous go	oods.			
LAND TRANSPORT (European ADR/RID)					
ADR/RID Shipping Name	Not dangerous go	oods.			
AIR TRANSPORT (ICAO/IATA)	6 6				
	Not don conque as	ada			
ICAO/IATA Shipping Name	Not dangerous go				
Additional Transport Information:	Transport in acco	ordance with local, s	tate, and federal reg	ulations.	
	15. Regul	atory Inforn	nation		
European Community Hazard Symbol codes	5				
No data available.					
European Community Risk and Safety Phras	ses				
S24/25 - Avoid contact with skin and ey	/es.				
S37/39 - Wear suitable gloves and eye/f	ace protection.				
US EPA SARA Title III					
Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. HEPES, free acid	7365-45-9	No	No	No	No
2. Sodium chloride	7647-14-5	No	No	No	No
3. Water Other US EPA or State Lists	7732-18-5	No	No	No	No
Hazardous Components (Chemical Name)	CAS #	CAA HAP,ODC		TSCA	
Hazardous Components (Chemical Name) 1. HEPES, free acid	7365-45-9	No	No	Inventory	CA PROP.6
Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride	7365-45-9 7647-14-5	No No	No No	Inventory Inventory	No No
Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride 3. Water	7365-45-9 7647-14-5 7732-18-5	No No No	No No No	Inventory Inventory Inventory	No No No
Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride	7365-45-9 7647-14-5 7732-18-5 This SDS was pre-	No No No epared in accordanc	No No No e with 29 CFR 1910	Inventory Inventory	No No No
Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride 3. Water	7365-45-9 7647-14-5 7732-18-5 This SDS was pro and European Din	No No Pared in accordanc rective 67/548/EEC	No No e with 29 CFR 1910 as amended.	Inventory Inventory Inventory	No No No
Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride 3. Water Regulatory Information Statement:	7365-45-9 7647-14-5 7732-18-5 This SDS was pre and European Din 16. Oth	No No No epared in accordanc	No No e with 29 CFR 1910 as amended.	Inventory Inventory Inventory	No No No
Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride 3. Water	7365-45-9 7647-14-5 7732-18-5 This SDS was pro and European Din	No No Pared in accordanc rective 67/548/EEC	No No e with 29 CFR 1910 as amended.	Inventory Inventory Inventory	No No No
Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride 3. Water Regulatory Information Statement:	7365-45-9 7647-14-5 7732-18-5 This SDS was pre and European Din 16. Oth	No No Pared in accordanc rective 67/548/EEC	No No e with 29 CFR 1910 as amended.	Inventory Inventory Inventory	No No No
Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride 3. Water Regulatory Information Statement: Revision Date: Company Policy or Disclaimer For research use only, not for human or vete	7365-45-9 7647-14-5 7732-18-5 This SDS was pro and European Din 16. Oth 03/18/2013	No No epared in accordanc rective 67/548/EEC	No No e with 29 CFR 1910 as amended.	Inventory Inventory Inventory .1200, Regulation (EC	No No C) No.1272/2008
Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride 3. Water Regulatory Information Statement: Revision Date: Company Policy or Disclaimer For research use only, not for human or vete DISCLAIMER: This information is believed	7365-45-9 7647-14-5 7732-18-5 This SDS was pre and European Din 16. Oth 03/18/2013 erinary use. d to be accurate and rep	No No epared in accordanc rective 67/548/EEC ner Informat	No No e with 29 CFR 1910 as amended.	Inventory Inventory Inventory .1200, Regulation (EC	No No C) No.1272/2008
Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride 3. Water Regulatory Information Statement: Revision Date: Company Policy or Disclaimer For research use only, not for human or veted DISCLAIMER: This information is believed merchantability or any other warranty, express	7365-45-9 7647-14-5 7732-18-5 This SDS was pro and European Din 16. Ott 03/18/2013 erinary use. d to be accurate and rej ess or implied, with res	No No epared in accordanc rective 67/548/EEC Ner Informat	No No e with 29 CFR 1910 as amended. ion	Inventory Inventory Inventory .1200, Regulation (EC	No No C) No.1272/2008
Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride 3. Water Regulatory Information Statement: Revision Date: Company Policy or Disclaimer For research use only, not for human or vete DISCLAIMER: This information is believed	7365-45-9 7647-14-5 7732-18-5 This SDS was pro and European Din 16. Ott 03/18/2013 erinary use. d to be accurate and rej ess or implied, with res	No No epared in accordanc rective 67/548/EEC Ner Informat	No No e with 29 CFR 1910 as amended. ion	Inventory Inventory Inventory .1200, Regulation (EC	No No C) No.1272/2008
Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride 3. Water Regulatory Information Statement: Revision Date: Company Policy or Disclaimer For research use only, not for human or veted DISCLAIMER: This information is believed merchantability or any other warranty, express	7365-45-9 7647-14-5 7732-18-5 This SDS was pread and European Dir 16. Oth 03/18/2013 erinary use. d to be accurate and regess or implied, with rest the suitability of the in	No No No Parent in accordance No	No No No e with 29 CFR 1910 as amended. ion mation currently availa on, and we assume no ticular purposes.	Inventory Inventory Inventory .1200, Regulation (EC	No No C) No.1272/2008
Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride 3. Water Regulatory Information Statement: Revision Date: Company Policy or Disclaimer For research use only, not for human or vetee DISCLAIMER: This information is believed marchantability or any other warranty, express make their own investigations to determine	7365-45-9 7647-14-5 7732-18-5 This SDS was pread and European Dir 16. Oth 03/18/2013 erinary use. d to be accurate and regess or implied, with rest the suitability of the in	No No No Parent in accordance No	No No No e with 29 CFR 1910 as amended. ion mation currently availa on, and we assume no ticular purposes.	Inventory Inventory Inventory .1200, Regulation (EC	No No C) No.1272/2008
Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride 3. Water Regulatory Information Statement: Revision Date: Company Policy or Disclaimer For research use only, not for human or vetee DISCLAIMER: This information is believed marchantability or any other warranty, express make their own investigations to determine	7365-45-9 7647-14-5 7732-18-5 This SDS was pread and European Dir 16. Oth 03/18/2013 erinary use. d to be accurate and regess or implied, with rest the suitability of the in	No No No Parent in accordance No	No No No e with 29 CFR 1910 as amended. ion mation currently availa on, and we assume no ticular purposes.	Inventory Inventory Inventory .1200, Regulation (EC	No No C) No.1272/2008
Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride 3. Water Regulatory Information Statement: Revision Date: Company Policy or Disclaimer For research use only, not for human or vete DISCLAIMER: This information is believed merchantability or any other warranty, express make their own investigations to determine	7365-45-9 7647-14-5 7732-18-5 This SDS was pread and European Dir 16. Oth 03/18/2013 erinary use. d to be accurate and regess or implied, with rest the suitability of the in	No No No Parent in accordance No	No No No e with 29 CFR 1910 as amended. ion mation currently availa on, and we assume no ticular purposes.	Inventory Inventory Inventory .1200, Regulation (EC	No No C) No.1272/2008
Hazardous Components (Chemical Name) 1. HEPES, free acid 2. Sodium chloride 3. Water Regulatory Information Statement: Revision Date: Company Policy or Disclaimer For research use only, not for human or vetee DISCLAIMER: This information is believed marchantability or any other warranty, express make their own investigations to determine	7365-45-9 7647-14-5 7732-18-5 This SDS was pread and European Dir 16. Oth 03/18/2013 erinary use. d to be accurate and regess or implied, with rest the suitability of the in	No No No Parent in accordance No	No No No e with 29 CFR 1910 as amended. ion mation currently availa on, and we assume no ticular purposes.	Inventory Inventory Inventory .1200, Regulation (EC	No No C) No.1272/2008



Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108

Revision: 03/18/2013 Supercedes Revision: 07/09/2012

Product Code:	600504		
Product Name:	TR-FRET Assay Buffer Additive		
Intended Use:	For research use only, not for human o	r veterinary use.	
Manufacturer Information			
Company Name:	Cayman Chemical Company		
Emergency Contact:	CHEMTREC Within USA and Canada	a: +1 (800)4	24-9300
Alternate Emergency Contact:	CHEMTREC Outside USA and Canad	la: +1 (703)5	27-3887
Information:	Cayman Chemical Company	+1 (734)971-33	35
Web site address:	www.caymanchem.com		
	2. Hazards Identifica	tion	
GHS Hazard Phrases:	Based on evaluation of currently availa according to GHS.	able data this subs	tance or mixture is not classifiable
GHS Precaution Phrases:	No data available.		
GHS Response Phrases:	No data available.		
GHS Storage and Disposal Phrases:	Please refer to Section 7 for Storage an	nd Section 13 for 1	Disposal information.
Route(s) of Entry:	Inhalation? Yes Skin? Yes Eyes	? Yes Ingestion	n? Yes Other: Injection
Detential Health Effects (Asute and Observe)	Material may be irritating to the muco		
Fotential Health Effects (Acute and Chronic):	May be harmful by inhalation, ingestion May cause eye, skin, or respiratory systematics	on, or skin absorpt	
	May be harmful by inhalation, ingestic	on, or skin absorpt	
Target Organs:	May be harmful by inhalation, ingestic May cause eye, skin, or respiratory sys	on, or skin absorpt stem irritation.	ion.
Potential Health Effects (Acute and Chronic): Target Organs: Signs and Symptoms Of Exposure: Medical Conditions Generally Aggravated By Exposure:	May be harmful by inhalation, ingestion May cause eye, skin, or respiratory syst No data available. To the best of our knowledge, the toxic	on, or skin absorpt stem irritation.	ion.
Target Organs: Signs and Symptoms Of Exposure: Medical Conditions Generally Aggravated By Exposure:	May be harmful by inhalation, ingestion May cause eye, skin, or respiratory syst No data available. To the best of our knowledge, the toxic	on, or skin absorpt stem irritation. cological propertio	ion. es have not been thoroughly investiga
Target Organs: Signs and Symptoms Of Exposure: Medical Conditions Generally Aggravated By Exposure: 3. CON lazardous Components (Chemical Name)	May be harmful by inhalation, ingestion May cause eye, skin, or respiratory syst No data available. To the best of our knowledge, the toxic No data available.	on, or skin absorpt stem irritation. cological propertio	ion. es have not been thoroughly investiga
Target Organs: Signs and Symptoms Of Exposure: Medical Conditions Generally Aggravated By Exposure: 3. CON azardous Components (Chemical Name)	May be harmful by inhalation, ingestion May cause eye, skin, or respiratory syst No data available. To the best of our knowledge, the toxic No data available. NDOSITION/INFORMATION OF CAS # Concentration NA 100.0 %	on, or skin absorpt tem irritation. cological propertion cological propertion n Ingredier EC#	ion. es have not been thoroughly investiga
Target Organs: Signs and Symptoms Of Exposure: Medical Conditions Generally Aggravated By Exposure: 3. CON lazardous Components (Chemical Name)	May be harmful by inhalation, ingestion May cause eye, skin, or respiratory syst No data available. To the best of our knowledge, the toxic No data available. No data available .	on, or skin absorpt tem irritation. cological propertion cological propertion n Ingredier EC#	ion. es have not been thoroughly investiga nts Risk Phrases
Target Organs: Signs and Symptoms Of Exposure: Medical Conditions Generally Aggravated By Exposure:	May be harmful by inhalation, ingestion May cause eye, skin, or respiratory syst No data available. To the best of our knowledge, the toxic No data available. NDOSITION/INFORMATION OF CAS # Concentration NA 100.0 %	on, or skin absorpt tem irritation. cological propertion cological propertion n Ingredier EC#	ion. es have not been thoroughly investiga nts Risk Phrases
Target Organs: Signs and Symptoms Of Exposure: Medical Conditions Generally Aggravated By Exposure: 3. CON azardous Components (Chemical Name) TR-FRET Assay Buffer Additive Emergency and First Aid Procedures:	May be harmful by inhalation, ingestion May cause eye, skin, or respiratory syst No data available. To the best of our knowledge, the toxic No data available. NDOSITION/INFORMATION OF CAS # Concentration NA 100.0 %	on, or skin absorpt tem irritation. cological propertion Ingredier EC# NA ES give artificial resp	ion. es have not been thoroughly investiga nts Risk Phrases No phrases apply.
Target Organs: Signs and Symptoms Of Exposure: Medical Conditions Generally Aggravated By Exposure: 3. CON Mazardous Components (Chemical Name) . TR-FRET Assay Buffer Additive	May be harmful by inhalation, ingestion May cause eye, skin, or respiratory syst No data available. To the best of our knowledge, the toxic No data available. nposition/Information or CAS # Concentration NA 100.0 % 4. First Aid Measur Remove to fresh air. If not breathing, g	on, or skin absorption teem irritation. cological propertion n Ingredier EC# NA ES give artificial respontion. plenty of water for	ion. es have not been thoroughly investiga nts Risk Phrases No phrases apply. iration or give oxygen by trained r at least 20 minutes. Remove
Target Organs: Signs and Symptoms Of Exposure: Medical Conditions Generally Aggravated By Exposure: 3. CON lazardous Components (Chemical Name) . TR-FRET Assay Buffer Additive Emergency and First Aid Procedures: In Case of Inhalation:	May be harmful by inhalation, ingestion May cause eye, skin, or respiratory syst No data available. To the best of our knowledge, the toxic No data available. nposition/Information or CAS # Concentration NA 100.0 % 4. First Aid Measur Remove to fresh air. If not breathing, g personnel. Get immediate medical atter Immediately wash skin with soap and p	on, or skin absorption teem irritation. cological propertion n Ingredier EC# NA ES give artificial respontion. plenty of water for plenty of water for plenty of water for	ion. es have not been thoroughly investiga nts Risk Phrases No phrases apply. iration or give oxygen by trained r at least 20 minutes. Remove ns occur. Wash clothing before reuse.



Revision: 03/18/2013 Supercedes Revision: 07/09/2012

JIES ide, water, or dry chemical spray. ntainers. EL: No data. thing apparatus pressure-demand or prevent contact with skin and eyes	(NIOSH approved or
ntainers. EL: No data. thing apparatus pressure-demand prevent contact with skin and eyes easures	(NIOSH approved or
EL: No data. thing apparatus pressure-demand prevent contact with skin and eyes easures	
thing apparatus pressure-demand prevent contact with skin and eyes	
thing apparatus pressure-demand prevent contact with skin and eyes	
thing apparatus pressure-demand prevent contact with skin and eyes	
thing apparatus pressure-demand prevent contact with skin and eyes	
erevent contact with skin and eyes	
erevent contact with skin and eyes	
rovide adequate ventilation. pproved self-contained breathing ober boots, safety goggles, and hea	
ronment, if safe to do so.	
for disposal in accordance with lo	cal regulations.
age	
oours/spray.	
sted on the product insert.	
not reuse this container. Use w	vith adequate ventilation
I Protection	
ACGIH TLV	Other Limits
No data.	No data.
France VL No data.	Europe No data.
	Lab coat Safety
Vent Hood entilation, or other engineering co	
Vent Hood	
Vent Hood entilation, or other engineering co	
Vent Hood entilation, or other engineering co	
Vent Hood entilation, or other engineering co	
ir	



Page: 3

Environmental Exposure Controls:	No data available.
9.	Physical and Chemical Properties
Information on Basic Physical and Chemic	cal Properties
Physical States:	[] Gas [] Liquid [X] Solid
Appearance and Odor:	Lyophilized
Melting Point:	No data.
Boiling Point:	No data.
Flash Pt:	No data.
Evaporation Rate:	No data.
Vapor Pressure (vs. Air or mm Hg):	No data.
Vapor Density (vs. Air = 1):	No data.
Specific Gravity (Water = 1):	No data.
Solubility in Water:	No data.
Autoignition Pt:	No data.
Explosive Properties:	No data available.
Oxidizing Properties:	No data available.
Other Information	
Percent Volatile:	No data.
	10. Stability and Reactivity
Reactivity:	No data available.
Stability:	Unstable [] Stable [X]
Stability Note(s):	Stable if stored in accordance with information listed on the product insert.
Conditions To Avoid:	No data available.
Polymerization:	Will occur [] Will not occur [X]
Incompatibility - Materials To Avoid:	strong oxidizing agents
Hazardous Decomposition Or Byproducts:	No data available.
	11. Toxicological Information
Toxicological Information:	The toxicological effects of this product have not been thoroughly studied.
Chronic Toxicological Effects:	No data available.
lazardous Components (Chemical Name)	CAS # NTP IARC ACGIH OSHA
. TR-FRET Assay Buffer Additive	NA n.a. n.a. n.a. n.a.
	12. Ecological Information
General Ecological Information:	Avoid release into the environment.
	Runoff from fire control or dilution water may cause pollution.
	13. Disposal Considerations
Waste Disposal Method:	13. Disposal Considerations Dispose in accordance with local, state, and federal regulations.
Waste Disposal Method:	•
	Dispose in accordance with local, state, and federal regulations.
Waste Disposal Method: LAND TRANSPORT (US DOT) DOT Proper Shipping Name	Dispose in accordance with local, state, and federal regulations.



Revision: 03/18/2013 Supercedes Revision: 07/09/2012 ADR/RID Shipping Name Not dangerous goods. **AIR TRANSPORT (ICAO/IATA) ICAO/IATA Shipping Name** Not dangerous goods. Additional Transport Information: Transport in accordance with local, state, and federal regulations. 15. Regulatory Information **European Community Hazard Symbol codes** No data available. **European Community Risk and Safety Phrases** S24/25 - Avoid contact with skin and eyes. S37/39 - Wear suitable gloves and eye/face protection. **US EPA SARA Title III** Hazardous Components (Chemical Name) CAS # Sec.302 (EHS) Sec.304 RQ Sec.313 (TRI) Sec.110 1. TR-FRET Assay Buffer Additive No NA No No No Other US EPA or State Lists **CWA NPDES** CA PROP.65 Hazardous Components (Chemical Name) CAS # CAA HAP,ODC TSCA 1. TR-FRET Assay Buffer Additive NA No No No No **Regulatory Information Statement:** This SDS was prepared in accordance with 29 CFR 1910.1200, Regulation (EC) No.1272/2008, and European Directive 67/548/EEC as amended. 16. Other Information **Revision Date:** 03/18/2013 **Company Policy or Disclaimer** For research use only, not for human or veterinary use. 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. N.A.=Not available, N.P.=Not applicable, N.D.=Not determined, N.E.=Not established, N.R.=Not required



Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108

Revision: 03/18/2013

Product Code:	600506		
Product Name:	H3 Positive Control		
Intended Use:	For research use only, not for human or	veterinary use.	
Manufacturer Information			
Company Name:	Cayman Chemical Company		
Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-	9300
Alternate Emergency Contact:	CHEMTREC Outside USA and Canada	: +1 (703)527-	3887
Information:	Cayman Chemical Company	+1 (734)971-3335	
Web site address:	www.caymanchem.com		
	2. Hazards Identificat	ion	
GHS Hazard Phrases:	Based on evaluation of currently availab according to GHS.	le data this substand	ce or mixture is not classifiable
GHS Precaution Phrases:	No data available.		
GHS Response Phrases:	No data available.		
GHS Storage and Disposal Phrases:	Please refer to Section 7 for Storage and	Section 13 for Disj	posal information.
Route(s) of Entry:	Inhalation? Yes Skin? Yes Eyes?	Yes Ingestion? Y	Yes Other: Injection
			5
Potential Health Effects (Acute and Chronic):	Material may be irritating to the mucous May be harmful by inhalation, ingestion May cause eye, skin, or respiratory syste	, or skin absorption	oper respiratory tract.
	May be harmful by inhalation, ingestion	, or skin absorption	oper respiratory tract.
Target Organs:	May be harmful by inhalation, ingestion May cause eye, skin, or respiratory syste	, or skin absorption em irritation.	pper respiratory tract.
Target Organs: Signs and Symptoms Of Exposure: Medical Conditions Generally Aggravated By	May be harmful by inhalation, ingestion May cause eye, skin, or respiratory syste No data available. To the best of our knowledge, the toxico	, or skin absorption em irritation.	pper respiratory tract.
Target Organs: Signs and Symptoms Of Exposure: Medical Conditions Generally Aggravated By Exposure:	May be harmful by inhalation, ingestion May cause eye, skin, or respiratory syste No data available. To the best of our knowledge, the toxico	, or skin absorption em irritation. ological properties h	oper respiratory tract.
lazardous Components (Chemical Name)	May be harmful by inhalation, ingestion May cause eye, skin, or respiratory syste No data available. To the best of our knowledge, the toxico No data available. No data available .	, or skin absorption em irritation. blogical properties h Ingredients EC#	oper respiratory tract.
Target Organs: Signs and Symptoms Of Exposure: Medical Conditions Generally Aggravated By Exposure: 3. CON Hazardous Components (Chemical Name)	May be harmful by inhalation, ingestion May cause eye, skin, or respiratory syste No data available. To the best of our knowledge, the toxico No data available. NDOSITION/INFORMATION ON CAS # Concentration F NA 100.0 %	, or skin absorption em irritation. blogical properties h Ingredients EC#	oper respiratory tract.
Target Organs: Signs and Symptoms Of Exposure: Medical Conditions Generally Aggravated By Exposure: 3. CON Hazardous Components (Chemical Name)	May be harmful by inhalation, ingestion May cause eye, skin, or respiratory syste No data available. To the best of our knowledge, the toxico No data available. No data available .	, or skin absorption em irritation. blogical properties h Ingredients EC#	per respiratory tract.
Target Organs: Signs and Symptoms Of Exposure: Medical Conditions Generally Aggravated By Exposure: 3. CON Hazardous Components (Chemical Name)	May be harmful by inhalation, ingestion May cause eye, skin, or respiratory syste No data available. To the best of our knowledge, the toxico No data available. nposition/Information on CAS # Concentration F NA 100.0 % N 4. First Aid Measure	, or skin absorption em irritation. blogical properties h Ingredients EC# NA SS	pper respiratory tract.
Target Organs: Signs and Symptoms Of Exposure: Medical Conditions Generally Aggravated By Exposure: <u>3. CON</u> Hazardous Components (Chemical Name) H3 Positive Control	May be harmful by inhalation, ingestion May cause eye, skin, or respiratory syste No data available. To the best of our knowledge, the toxico No data available. NDOSITION/INFORMATION ON CAS # Concentration F NA 100.0 %	, or skin absorption em irritation. blogical properties h Ingredients EC# NA PS	pper respiratory tract.
Target Organs: Signs and Symptoms Of Exposure: Medical Conditions Generally Aggravated By Exposure: <u>3. CON</u> <u>Iazardous Components (Chemical Name)</u> <u>H3 Positive Control</u> Emergency and First Aid Procedures: In Case of Inhalation:	May be harmful by inhalation, ingestion May cause eye, skin, or respiratory syste No data available. To the best of our knowledge, the toxico No data available. nposition/Information on CAS # Concentration F A. First Aid Measure Remove to fresh air. If not breathing, give	, or skin absorption em irritation. blogical properties h Ingredients EC# NA PS ve artificial respiration. enty of water for at	pper respiratory tract
Target Organs: Signs and Symptoms Of Exposure: Medical Conditions Generally Aggravated By Exposure: 3. CON Hazardous Components (Chemical Name) H3 Positive Control Emergency and First Aid Procedures:	May be harmful by inhalation, ingestion May cause eye, skin, or respiratory syste No data available. To the best of our knowledge, the toxico No data available. nposition/Information on CAS # Concentration F A. First Aid Measure Remove to fresh air. If not breathing, giv personnel. Get immediate medical attent Immediately wash skin with soap and pl	, or skin absorption em irritation. blogical properties h Ingredients EC# NA S ve artificial respiration. enty of water for at ntion if symptoms c lenty of water for a	 pper respiratory tract. ave not been thoroughly investigat Risk Phrases No phrases apply. ion or give oxygen by trained least 20 minutes. Remove bccur. Wash clothing before reuse.



Indication of any immediate medical attention and special treatment needed:	No data available.			
	5. Fire Fi	ghting Measures		
Suitable Extinguishing Media:		ant foam, carbon dioxide, water	, or dry chemical spray.	
		o cool fire-exposed containers.		
Unsuitable Extinguishing Media:	A solid water stream	am may be inefficient.		
Flammable Properties and Hazards:	No data available.			
Flash Pt:	No data.			
Autoignition Pt:	No data available.			
Explosive Limits:	LEL: No data.	UEL: No da	ita.	
Hazardous Combustion Products:	No data available.			
Fire Fighting Instructions:	-	ar self-contained breathing appa ull protective gear to prevent con	-	approved or
6	. Accidenta	I Release Measure	S	
Protective Precautions, Protective Equipment and Emergency Procedures:	As conditions war	breathing dust, and provide ade rrant, wear a NIOSH approved s ersonal protection (rubber boots,	elf-contained breathing apparatu	-
Environmental Precautions:	Take steps to avoi	id release into the environment,	if safe to do so.	
Steps To Be Taken In Case Material Is Released Or Spilled:	-	collect, as appropriate. nical waste container for disposa	l in accordance with local regul	lations.
	7. Handl	ing and Storage		
Precautions To Be Taken in Handling:	-	lust/fume/gas/mist/vapours/spray	<i>I</i> .	
	Avoid prolonged	or repeated exposure.		
Precautions To Be Taken in Storing:	Keep container tig Store in accordance	ghtly closed. ce with information listed on the	product insert.	
Hazard Label Information:	Avoid contact wit Wash thoroughly	•	this container. Use with adec	quate ventilation
8. Ex	posure Con	trols/Personal Prot	ection	
Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TLV	Other Limits
1. H3 Positive Control	NA	No data.	No data.	No data.
Hazardous Components (Chemical Name)	CAS #	Britain EH40	France VL	Europe
1. H3 Positive Control Protective Equipment Summary - Hazard	Compatible chemi	No data. ical-resistant gloves Eye wash	No data. I station in work area Lab coa	No data. at Safety
Label Information:	•	shower in work area Vent Hoc		u Salety
Engineering Controls (Ventilation etc.):	•	osures, local exhaust ventilation,		control airborn
,		mmended exposure limits.	of other engineering contacts	Condor and con
Eye Protection:	Safety glasses			
Protective Gloves:		ical-resistant gloves		
Other Protective Clothing:	Lab coat	-		
Respiratory Equipment (Specify Type):	NIOSH approved	respirator, as conditions warran	t.	
Work/Hygienic/Maintenance Practices:	Do not take intern	-		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		or utilizing this material should l	be equipped with an eyewash an	id a safety



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Environmental Exposure Controls:	No data available.				
9.	Physical and Cl	hemical P	roperties		
Information on Basic Physical and Chemica	al Properties				
Physical States:	[] Gas [] Liquid	[X] Solid			
Appearance and Odor:	A lyophilized powder				
Melting Point:	No data.				
Boiling Point:	No data.				
Flash Pt:	No data.				
Evaporation Rate:	No data.				
Vapor Pressure (vs. Air or mm Hg):	No data.				
Vapor Density (vs. Air = 1):	No data.				
Specific Gravity (Water = 1):	No data.				
Solubility in Water:	No data.				
Autoignition Pt:	No data.				
Explosive Properties:	No data available.				
Oxidizing Properties:	No data available.				
Other Information					
Percent Volatile:	No data.				
	10. Stability a	nd React	vity		
Reactivity:	No data available.				
Stability:	Unstable [] Stable	e [X]			
Stability Note(s):	Stable if stored in accord	dance with infor	mation listed on	the product insert.	
Conditions To Avoid:	No data available.				
Polymerization:	Will occur [] Will	not occur [X]			
Incompatibility - Materials To Avoid:	No data available.				
Hazardous Decomposition Or Byproducts:	No data available.				
	11. Toxicologio	cal Inform	ation		
Toxicological Information:	The toxicological effect	s of this product	have not been th	oroughly studied.	
Chronic Toxicological Effects:	No data available.				
Hazardous Components (Chemical Name)	CAS # NTP		ARC	ACGIH	OSHA
. H3 Positive Control	NA n.a.		n.a.	n.a.	n.a.
	12. Ecologica	al Informat	tion		
General Ecological Information:	Avoid release into the en				
	Runoff from fire control	l or dilution wate	r may cause poll	lution.	
	13. Disposal C	Considerat	ions		
Waste Disposal Method:	Dispose in accordance v	with local, state,	and federal regul	ations.	
	14. Transpor	t Informat	ion		
LAND TRANSPORT (US DOT)					
DOT Proper Shipping Name	Not dangerous goods.				



Revision: 03/18/2013

ADRRID Shipping Name Not dangerous goods. ART RANSPORT IGCAOI/ATA3 Transport in accordance with local, state, and federal regulations. Additional Transport Information: Transport in accordance with local, state, and federal regulations. European Community Risk and Safety Phrases Safeta Safet	AIR TRANSPORT (ICAO/IATA)	INCOL COMPARATIONS OF					
ICAO/IATA Shipping Name Not dangerous goods. Additional Transport Information: Transport in accordance with local, state, and federal regulations. Image: Comparison of the		Not dangerous go	ous.				
Additional Transport Information: Transport in accordance with local, state, and federal regulations. Image: State in the imag	ICAO/IATA Shinning Namo						
If the second s	ICAONATA Shipping Name	Not dangerous go	ods.				
European Community Hazard Symbol codes No data available. European Community Risk and Safety Phrases S24/25 - Avoid contact with skin and eyes. S37/39 - Wear suitable gloves and eye/face protection. US EPA SARA Title III Hazardous Components (Chemical Name) CAS # Sec.302 (EHS) Sec.304 RQ Sec.313 (TRI) Sec.110 1. H3 Positive Control NA No No No No Other US EPA or State Lists Hazardous Components (Chemical Name) CAS # CAA HAP,ODC CWA NPDES TSCA CA PROP.6 1 Hazardous Components (Chemical Name) CAS # CAA HAP,ODC CWA NPDES TSCA CA PROP.6 Hazardous Components (Chemical Name) CAS # CAA HAP,ODC CWA NPDES TSCA CA PROP.6 1. H3 Positive Control NA No No No No No Regulatory Information Statement: This SDS was prepared in accordance with 29 CFR 1910.1200, Regulation (EC) No.1272/2008 and European Directive 67/548/EEC as amended. <td colspanet="" for="" fore="" human="" not="" only,="" or="" research="" th="" use="" veterinar<=""><th>Additional Transport Information:</th><th>Transport in acco</th><th>rdance with local, s</th><th>tate, and federal reg</th><th>ulations.</th><th></th></td>	<th>Additional Transport Information:</th> <th>Transport in acco</th> <th>rdance with local, s</th> <th>tate, and federal reg</th> <th>ulations.</th> <th></th>	Additional Transport Information:	Transport in acco	rdance with local, s	tate, and federal reg	ulations.	
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and European Directive 67/548/EEC as amended.			-	-		-	
Revision Date: 03/18/2013 Company Policy or Disclaimer	Regulatory Information Statement:	•	•		.1200, Regulation (EC	C) No.1272/2008,	
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	N.A.=Not available, N.P.=Not applicable, N.I	D.=Not determined, N	I.E.=Not established,	N.R.=Not required			



Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108

Revision: 03/18/2013

		ted by medical pers		or at least 20 minutes. He	ive cycs		
n Case of Skin Contact: n Case of Eye Contact:	contaminated clot	thing. Get medical a	ttention if sympton	or at least 20 minutes. Rea ms occur. Wash clothing for at least 20 minutes. Ha	before reuse.		
n Case of Inhalation:	personnel. Get im	mediate medical at	tention.	piration or give oxygen by			
Emergency and First Aid Procedures:							
	4. First	: Aid Measu	res				
Water	7732-18-5	>88.0 %	231-791-2	No phrases apply.	ZC0110000		
Sodium chloride	7647-14-5	< 1.0 %	231-598-3	R36	VZ4725000		
HEPES, free acid	7365-45-9	< 1.0 %	230-907-9	No phrases apply.	TL6809000		
azardous Components (Chemical Name) BAZ2B bromodomain Europium Chelate	CAS #	Concentration	EC#	Risk Phrases	RTECS #		
	-	nformation o		1	1		
Medical Conditions Generally Aggravated By Exposure:							
Signs and Symptoms Of Exposure:		-	cicological propert	ies have not been thoroug	hly investigate		
Farget Organs:	No data available						
	May cause eye, skin, or respiratory system irritation.						
	May be harmful b	by inhalation, ingest	ion, or skin absorp				
Potential Health Effects (Acute and Chronic):							
Route(s) of Entry:	Inhalation? Yes Skin? Yes Eyes? Yes Ingestion? Yes Other: Injection						
GHS Storage and Disposal Phrases:	Please refer to Section 7 for Storage and Section 13 for Disposal information.						
GHS Response Phrases:	No data available.						
GHS Precaution Phrases:	No data available.						
GHS Hazard Phrases:	Based on evaluati according to GHS	-	ilable data this sub	stance or mixture is not c	lassifiable		
		rds Identific					
web site address:	www.caymanche						
Information: Web site address:	Cayman Chemical Company +1 (734)971-3335						
Alternate Emergency Contact:	CHEMTREC Outside USA and Canada: +1 (703)527-3887						
Emergency Contact:		thin USA and Cana					
Company Name:	Cayman Chemica						
Manufacturer Information							
ntended Use:	For research use of	only, not for human	or veterinary use.				
Product Name:	BRM bromodoma	ain Europium Chela	ite				
		00731 RM bromodomain Europium Chelate					



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 be medical personnel.					
Indication of any immediate medical attention and special treatment needed:	No data available					
	5. Fire Fi	ghting Measures	6			
Suitable Extinguishing Media:		tant foam, carbon dioxide, v o cool fire-exposed containe	vater, or dry chemical spray. ers.			
Unsuitable Extinguishing Media:	A solid water stre	am may be inefficient.				
Flammable Properties and Hazards:	No data available					
Flash Pt:	No data.					
Autoignition Pt:	No data available					
-						
Explosive Limits:	LEL: No data.	UEL: N	lo data.			
Hazardous Combustion Products:	No data available					
Fire Fighting Instructions:	•	e	apparatus pressure-demand (at contact with skin and eyes			
6	. Accidenta	I Release Meas	ures			
Protective Precautions, Protective Equipment and Emergency Procedures:	Avoid breathing vapors and provide adequate ventilation. As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirate and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).					
Environmental Precautions:	Take steps to avoid release into the environment, if safe to do so.					
Steps To Be Taken In Case Material Is	Contain spill and collect, as appropriate.					
Released Or Spilled:	-		sposal in accordance with loc	cal regulations.		
	7. Handl	ing and Storage				
Precautions To Be Taken in Handling:	-	lust/fume/gas/mist/vapours/ or repeated exposure.	spray.			
Precautions To Be Taken in Storing:	Keep container tig Store in accordan	ghtly closed. ce with information listed o	n the product insert.			
Hazard Label Information:	Avoid contact wit Wash thoroughly	-	euse this container. Use w	ith adequate ventilation		
8. Ex	posure Con	trols/Personal P	rotection			
Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TLV	Other Limit		
BAZ2B bromodomain Europium Chelate	NA	No data.	No data.	No data.		
2. HEPES, free acid	7365-45-9	No data.	No data.	No data.		
3. Sodium chloride	7647-14-5	No data.	No data.	No data.		
4. Water	7732-18-5	No data.	No data.	No data.		
Hazardous Components (Chemical Name)	CAS #	Britain EH40	France VL	Europe		
BAZ2B bromodomain Europium Chelate HEPES, free acid	NA 7365-45-9	No data. No data.	No data. No data.	No data. No data.		
3. Sodium chloride	7647-14-5	No data.	No data.	No data.		
I. Water	7732-18-5	No data.	No data.	No data.		
Protective Equipment Summary - Hazard Label Information:	Compatible chem	ical-resistant gloves Eye		Lab coat Safety		
Engineering Controls (Ventilation etc.):			tion, or other engineering co	ntrols to control airbo		



Eye Protection:	Safety glasses
Protective Gloves:	Compatible chemical-resistant gloves
Other Protective Clothing:	Lab coat
Respiratory Equipment (Specify Type):	NIOSH approved respirator, as conditions warrant.
Work/Hygienic/Maintenance Practices:	Do not take internally. Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower. Wash thoroughly after handling.
Environmental Exposure Controls:	No data available.

9. Physical and Chemical Properties

Information on Basic Physical and Chemical	Properties				
Physical States:	[]Gas [X]	Liquid [] Solid		
Appearance and Odor:	No data available				
pH:	8.0				
Melting Point:	No data.				
Boiling Point:	No data.				
Flash Pt:	No data.				
Evaporation Rate:	No data.				
Vapor Pressure (vs. Air or mm Hg):	No data.				
Vapor Density (vs. Air = 1):	No data.				
Specific Gravity (Water = 1):	No data.				
Solubility in Water:	No data.				
Autoignition Pt:	No data.				
Explosive Properties:	No data available				
Oxidizing Properties:	No data available				
Other Information					
Percent Volatile:	No data.				
	10. Stabil	ity and R	Reactivity		
Reactivity:	No data available		-		
Stability:	Unstable []	Stable [X]			
Stability Note(s):	Stable if stored in	accordance w	ith information listed	on the product insert.	
Conditions To Avoid:	No data available				
Polymerization:	Will occur []	Will not occ	cur [X]		
Incompatibility - Materials To Avoid:	No data available				
Hazardous Decomposition Or Byproducts:	No data available				
	11. Toxicol	logical In	formation		
Toxicological Information:				en thoroughly studied.	
Chronic Toxicological Effects:	No data available				
Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
. BAZ2B bromodomain Europium Chelate	NA	n.a.	n.a.	n.a.	n.a.
2. HEPES, free acid	7365-45-9	n.a.	n.a.	n.a.	n.a.



Revision: 03/18/2013

Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
3. Sodium chloride	7647-14-5	n.a.	n.a.	n.a.	n.a.
4. Water	7732-18-5	n.a.	n.a.	n.a.	n.a.
Carcinogenicity:	NTP? No IA	RC Monographs? N	No OSHA Regu	lated? No	
	12. Ecolo	gical Inform	nation		
General Ecological Information:	Avoid release into	the environment.			
	Runoff from fire	control or dilution v	vater may cause poll	ution.	
	13. Dispos	al Conside	rations		
Waste Disposal Method:	Dispose in accord	ance with local, sta	te, and federal regul	ations.	
	14. Trans	sport Inform	ation		
LAND TRANSPORT (US DOT)					
DOT Proper Shipping Name	Not dangerous go	ods.			
LAND TRANSPORT (European ADR/RID)					
ADR/RID Shipping Name	Not dangerous go	ods.			
AIR TRANSPORT (ICAO/IATA)	0 0				
ICAO/IATA Shipping Name	Not dangerous go	ods.			
Additional Transport Information:	Transport in acco	rdance with local, s	tate, and federal reg	ulations.	
	15. Regul	atory Inform	nation		
European Community Hazard Symbol codes	0				
No data available.					
European Community Risk and Safety Phras	es				
S24/25 - Avoid contact with skin and eye	es.				
S37/39 - Wear suitable gloves and eye/fa	ce protection.				
US EPA SARA Title III					
	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
Hazardous Components (Chemical Name) 1. BAZ2B bromodomain Europium Chelate	CAS #	Sec.302 (EHS) No	Sec.304 RQ No	Sec.313 (TRI)	Sec.110
Hazardous Components (Chemical Name) 1. BAZ2B bromodomain Europium Chelate	NA 7365-45-9	No No	No No	. ,	No No
Hazardous Components (Chemical Name)1. BAZ2B bromodomain Europium Chelate2. HEPES, free acid	NA	No No	No	No	No
Hazardous Components (Chemical Name) 1. BAZ2B bromodomain Europium Chelate 2. HEPES, free acid 3. Sodium chloride 4. Water	NA 7365-45-9	No No	No No	No No	No No
Hazardous Components (Chemical Name) 1. BAZ2B bromodomain Europium Chelate 2. HEPES, free acid 3. Sodium chloride	NA 7365-45-9 7647-14-5	No No No	No No No	No No No	No No
Hazardous Components (Chemical Name) 1. BAZ2B bromodomain Europium Chelate 2. HEPES, free acid 3. Sodium chloride 4. Water Other US EPA or State Lists Hazardous Components (Chemical Name)	NA 7365-45-9 7647-14-5 7732-18-5 CAS #	No No No CAA HAP,ODC	No No No CWA NPDES	No No No No TSCA	No No No CA PROP.65
Hazardous Components (Chemical Name) 1. BAZ2B bromodomain Europium Chelate 2. HEPES, free acid 3. Sodium chloride 4. Water Other US EPA or State Lists Hazardous Components (Chemical Name) 1. BAZ2B bromodomain Europium Chelate	NA 7365-45-9 7647-14-5 7732-18-5 CAS # NA	No No No CAA HAP,ODC No	No No No CWA NPDES No	No No No No TSCA No	No No No No CA PROP.65 No
Hazardous Components (Chemical Name) 1. BAZ2B bromodomain Europium Chelate 2. HEPES, free acid 3. Sodium chloride 4. Water Other US EPA or State Lists Hazardous Components (Chemical Name) 1. BAZ2B bromodomain Europium Chelate 2. HEPES, free acid	NA 7365-45-9 7647-14-5 7732-18-5 CAS # NA 7365-45-9	No No No CAA HAP,ODC No No	No No No CWA NPDES No No	No No No No TSCA No Inventory	No No No No CA PROP.65 No No
Hazardous Components (Chemical Name) 1. BAZ2B bromodomain Europium Chelate 2. HEPES, free acid 3. Sodium chloride 4. Water Other US EPA or State Lists Hazardous Components (Chemical Name) 1. BAZ2B bromodomain Europium Chelate 2. HEPES, free acid 3. Sodium chloride	NA 7365-45-9 7647-14-5 7732-18-5 CAS # NA 7365-45-9 7647-14-5	No No No CAA HAP,ODC No No No	No No No No No CWA NPDES No No No	No No No No TSCA No Inventory Inventory	No No No No CA PROP.65 No No No No
Hazardous Components (Chemical Name) 1. BAZ2B bromodomain Europium Chelate 2. HEPES, free acid 3. Sodium chloride 4. Water Other US EPA or State Lists Hazardous Components (Chemical Name) 1. BAZ2B bromodomain Europium Chelate 2. HEPES, free acid 3. Sodium chloride 4. Water	NA 7365-45-9 7647-14-5 7732-18-5 CAS # NA 7365-45-9 7647-14-5 7365-45-9 7647-14-5 7732-18-5	No No No CAA HAP,ODC No No No No	No No No No No CWA NPDES No No No No No No No No	No No No No TSCA No Inventory Inventory Inventory Inventory	No No No No No CA PROP.65 No
Hazardous Components (Chemical Name) 1. BAZ2B bromodomain Europium Chelate 2. HEPES, free acid 3. Sodium chloride 4. Water Other US EPA or State Lists Hazardous Components (Chemical Name) 1. BAZ2B bromodomain Europium Chelate 2. HEPES, free acid 3. Sodium chloride	NA 7365-45-9 7647-14-5 7732-18-5 CAS # NA 7365-45-9 7647-14-5 7365-45-9 7647-14-5 7732-18-5 This SDS was pre-	No No No CAA HAP,ODC No No No No	No No No No No CWA NPDES No Posterior No No No Posterior No No Posterior No No No Posterior No No No No No No No	No No No No TSCA No Inventory Inventory	No No No No No CA PROP.65 No
Hazardous Components (Chemical Name) 1. BAZ2B bromodomain Europium Chelate 2. HEPES, free acid 3. Sodium chloride 4. Water Other US EPA or State Lists Hazardous Components (Chemical Name) 1. BAZ2B bromodomain Europium Chelate 2. HEPES, free acid 3. Sodium chloride 4. Water	NA 7365-45-9 7647-14-5 7732-18-5 CAS # NA 7365-45-9 7647-14-5 7365-45-9 7647-14-5 7732-18-5 This SDS was pre- and European Dir	No No No No No No No No No pared in accordanc	No No No No CWA NPDES No No No No No No No No e with 29 CFR 1910 as amended.	No No No No TSCA No Inventory Inventory Inventory Inventory	No No No No No CA PROP.63 No
Hazardous Components (Chemical Name) 1. BAZ2B bromodomain Europium Chelate 2. HEPES, free acid 3. Sodium chloride 4. Water Other US EPA or State Lists Hazardous Components (Chemical Name) 1. BAZ2B bromodomain Europium Chelate 2. HEPES, free acid 3. Sodium chloride 4. Water	NA 7365-45-9 7647-14-5 7732-18-5 CAS # NA 7365-45-9 7647-14-5 7365-45-9 7647-14-5 7732-18-5 This SDS was pre- and European Dir	No No No No No No No No No No No No No Spared in accordance ective 67/548/EEC	No No No No CWA NPDES No No No No No No No No e with 29 CFR 1910 as amended.	No No No No TSCA No Inventory Inventory Inventory Inventory	No No No No No CA PROP.65 No
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Hazardous Components (Chemical Name) 1. BAZ2B bromodomain Europium Chelate 2. HEPES, free acid 3. Sodium chloride 4. Water Other US EPA or State Lists Hazardous Components (Chemical Name) 1. BAZ2B bromodomain Europium Chelate 2. HEPES, free acid 3. Sodium chloride 4. Water Regulatory Information Statement: Revision Date: Company Policy or Disclaimer For research use only, not for human or veter	NA 7365-45-9 7647-14-5 7732-18-5 CAS # NA 7365-45-9 7647-14-5 7647-14-5 7732-18-5 This SDS was pre- and European Dir 16. Oth 03/18/2013 cinary use. to be accurate and rep- ss or implied, with ress	No No No No No No No No No No No Pared in accordanc ective 67/548/EEC	No e with 29 CFR 1910 as amended. ion nation currently availa on, and we assume no	No No No No TSCA No Inventory Inventory Inventory Inventory Inventory Inventory ble to us. However, we represent the second	No No No No CA PROP.6 No No

N.A.=Not available, N.P.=Not applicable, N.D.=Not determined, N.E.=Not established, N.R.=Not required



SAFETY DATA SHEET BRM bromodomain Ligand/APC Acceptor

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Mixture

Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108



Product Code:	600732				
Product Name:	BRM bromodom	ain Ligand/APC	Acceptor Mixture		
Intended Use:	For research use	only, not for hun	nan or veterinary use.		
Manufacturer Information					
Company Name:	Cayman Chemic	al Company			
Emergency Contact:	CHEMTREC Wi	ithin USA and Ca	anada: +1 (800)424-9300		
	CHEMTREC Ou	itside USA and C	Canada: +1 (703)527-3887		
	Cayman Chemical Company +1 (734)971-3335				
	www.caymanchem.com				
	-				
	2. Haza	rds Identif			
GHS Classification	Placard	Key word	GHS Hazard		
Skin Corrosion/Irritation, Category 2	Exclamation point	Warning	Causes skin irritation		
Serious Eye Damage/Eye Irritation, Category	Exclamation	Warning	Causes serious eye irritation		
2A	point				
Target Organ Systemic Toxicity (single	Exclamation	Warning	May cause respiratory irritation, or may cause drows	iness	
exposure), Category 3	point		and dizziness		
Acute Toxicity: Oral, Category 5 GHS Hazard Phrases:	none H315: Causes sk	Warning	May be harmful if swallowed		
GHS Precaution Phrases: GHS Response Phrases:	manufacturer/sup P261: Avoid brea P302+352: IF Of P332+313: If ski P362: Take off cc P305+351+338: lenses, if present P307+313: If eye P309+311: Call a P304+340: IF IN for breathing.	armful if swallow ds thoroughly after ective gloves/clob oplier or the comp athing dust/fume/ N SKIN: Wash w n irritation occur ontaminated clot IF IN EYES: Rin and easy to do. Ce irritation persist a POISON CENT (HALED: Remov	ved. ter handling. thing and eye/face protection as specified by the upetent authority. //gas/mist/vapours/spray. vith plenty of soap and water. rs, get medical advice/attention. thing and wash before re-use. nse cautiously with water for several minutes. Remove co Continue rinsing. ts, get medical advice/attention. TER or doctor/physician if exposed or you feel unwell. ve victim to fresh air and keep at rest in a position comfor		
			or doctor/physician if you feel unwell. age and Section 13 for Disposal information.		
	Inhalation? Yes		Eyes? Yes Ingestion? Yes Other: Injection		
Potential Health Effects (Acute and Chronic):	Causes seriouse of Causes skin and	eye irritation respiratory syster			

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	0
Cayman	Cauman

Target Organs:

SAFETY DATA SHEET BRM bromodomain Ligand/APC Acceptor

Mixture

No data available.

Signs and Symptoms Of Exposure:

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

Medical Conditions Generally Aggravated By No data available.

Hazardous Components (Chemical Name)	CAS #	Concentration	EC#	Risk Phrases	RTECS #
BRM bromodomain Ligand/APC Acceptor	NA	99.25 %	NA	R36/37/38	NA
. Sodium azide	26628-22-8	0.75 %	247-852-1	R28-32-50/53	VY805000
	4. First	Aid Measu	ires		
Emergency and First Aid Procedures:					
In Case of Inhalation:		air. If not breathing mediate medical at	-	piration or give oxygen	by trained
In Case of Skin Contact:	-	-		for at least 20 minutes. R	
In Case of Eye Contact:		t and flush eyes wi ted by medical pers		for at least 20 minutes. I	Have eyes
In Case of Ingestion:		on. Get medical atte	-	ous. Never give anything duce vomiting unless di	-
Indication of any immediate medical attention and special treatment needed:	No data available				
	5. Fire Fi	ghting Mea	sures		
Suitable Extinguishing Media:				ry chemical spray.	
		o cool fire-exposed			
Unsuitable Extinguishing Media:	A solid water stre	am may be ineffici	ent.		
Flammable Properties and Hazards:	No data available				
Flash Pt:	No data.				
Autoignition Pt:	No data available				
Explosive Limits:	LEL: No data.		UEL: No data.		
Hazardous Combustion Products:	No data available				
Fire Fighting Instructions:				pressure-demand (NIOS) with skin and eyes.	SH approved of
6	. Accidenta	I Release N	leasures		
Protective Precautions, Protective Equipment and Emergency Procedures:	As conditions was		H approved self-co	e ventilation. ontained breathing appar ty goggles, and heavy ru	
Environmental Precautions:	Take steps to avo	id release into the e	nvironment, if saf	e to do so.	
Steps To Be Taken In Case Material Is Released Or Spilled:	-	collect, as appropri nical waste contain		accordance with local re-	gulations.
	7. Hand	ing and Sto	orage		
Precautions To Be Taken in Handling:		lust/fume/gas/mist/	vapours/spray.		



SAFETY DATA SHEET BRM bromodomain Ligand/APC Acceptor

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		Mixture	Re	evision: 03/18/2013
Precautions To Be Taken in Storing:	Keep container tig			
	Store in accordan	ce with information listed of	on the product insert.	
Hazard Label Information:	Avoid contact wit Wash thoroughly	•	reuse this container. Use with	adequate ventilatio
8. Ex	posure Con	trols/Personal P	Protection	
Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TWA	Other Limits
1. BRM bromodomain Ligand/APC Acceptor Mixture	NA	No data.	No data.	No data.
2. Sodium azide	26628-22-8	No data.	CEIL: 0.29 mg/m3	No data.
Hazardous Components (Chemical Name)	CAS #	Britain EH40	France VL	Europe
1. BRM bromodomain Ligand/APC Acceptor Mixture	NA	No data.	No data.	No data.
2. Sodium azide	26628-22-8	TWA: 0.1 mg/m3 () STEL: 0.3 mg/m3 ()	TWA: 0.1 mg/m3 STEL: 0.3 mg/m3	TWA: 0.1 mg/m3 STEL: 0.3 mg/m3
Protective Equipment Summary - Hazard	Compatible chem	ical-resistant gloves Eye	wash station in work area La	b coat Safety
Label Information:	glasses Safety	shower in work area Ven	it Hood	
Engineering Controls (Ventilation etc.):	•	osures, local exhaust ventila mmended exposure limits.	ation, or other engineering contro	ols to control airbor
Eye Protection:	Safety glasses			
Protective Gloves:	Compatible chem	ical-resistant gloves		
Other Protective Clothing:	Lab coat			
Respiratory Equipment (Specify Type):	NIOSH approved	respirator, as conditions w	arrant.	
Work/Hygienic/Maintenance Practices:	Do not take interr Facilities storing shower. Wash thoroughly	or utilizing this material sho	ould be equipped with an eyewa	sh and a safety
Environmental Exposure Controls:	No data available			
9	Physical and	d Chemical Prop	perties	
0.				

Information on Basic Physical and Chemical Properties

	•
Physical States:	[] Gas [] Liquid [X] Solid
Appearance and Odor:	A lyophilized powder
Melting Point:	No data.
Boiling Point:	No data.
Flash Pt:	No data.
Evaporation Rate:	No data.
Vapor Pressure (vs. Air or mm Hg):	No data.
Vapor Density (vs. Air = 1):	No data.
Specific Gravity (Water = 1):	No data.
Solubility in Water:	No data.
Autoignition Pt:	No data.
Explosive Properties:	No data available.
Oxidizing Properties:	No data available.
Other Information	



SAFETY DATA SHEET BRM bromodomain Ligand/APC Acceptor Mixture

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	No data.				
	10. Stabil	ity and F	Reactivity		
Reactivity:	No data available				
Stability:	Unstable []	Stable [X]			
Stability Note(s):	Stable if stored ir	n accordance v	vith information listed	on the product insert.	
Conditions To Avoid:	No data available				
Polymerization:	Will occur []	Will not oc	cur [X]		
Incompatibility - Materials To Avoid:	No data available				
Hazardous Decomposition Or Byproducts:	No data available	e.			
	11. Toxico	logical Ir	nformation		
Toxicological Information:	The toxicological	l effects of this	s product have not bee	n thoroughly studied.	
Chronic Toxicological Effects:	No data available	2.			
Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1. BRM bromodomain Ligand/APC Acceptor	NA	n.a.	n.a.	n.a.	n.a.
Mixture 2. Sodium azide	26628-22-8	 n.a.	 	A4	
					1
	12. Ecolo	•			
General Ecological Information:	Avoid release into Runoff from fire		nent. ition water may cause	pollution.	
	13. Dispos	al Cons	iderations		
Waste Disposal Method:	Dispose in accord	lance with loc	al, state, and federal r	egulations.	
	14. Trans	sport Inf	ormation		
Globally Harmonized System of Classificatio		sport mit	Jination		
Skin Corrosion/Irritation, Category 2 - Warn Serious Eye Damage/Eye Irritation, Category Target Organ Systemic Toxicity (single expo	y 2A - Warning! Caus osure), Category 3 - W	es serious eye in /arning! May ca		or may cause drowsiness	
Acute Toxicity: Oral, Category 5 - Warning LAND TRANSPORT (US DOT)	! May be narmful if sv			or may cause arowsness	and dizziness
				or may cause drowsmess	and dizziness
LAND TRANSPORT (US DOT) DOT Proper Shipping Name	Not dangerous go			of may eause crowsmess	and dizziness
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LAND TRANSPORT (US DOT) DOT Proper Shipping Name LAND TRANSPORT (European ADR/RID) ADR/RID Shipping Name AIR TRANSPORT (ICAO/IATA) ICAO/IATA Shipping Name Additional Transport Information: European Community Hazard Symbol codes European Community Risk and Safety Phras R36/37/38 - Irritating to eyes, respiratory s S22 - Do not breathe dust. S24/25 - Avoid contact with skin and eye S26 - In case of contact with eyes, rins S36/37/39 - Wear suitable protective cloth	Not dangerous go Not dangerous go Not dangerous go Transport in acco 15. Regul Xi: Irritant system and skin. es. e immediately with pla	oods. oods. ordance with lo atory Inf	ormation		and dizziness
LAND TRANSPORT (US DOT) DOT Proper Shipping Name LAND TRANSPORT (European ADR/RID) ADR/RID Shipping Name AIR TRANSPORT (ICAO/IATA) ICAO/IATA Shipping Name Additional Transport Information: European Community Hazard Symbol codes European Community Risk and Safety Phras R36/37/38 - Irritating to eyes, respiratory s S22 - Do not breathe dust. S24/25 - Avoid contact with skin and eye S26 - In case of contact with eyes, riss	Not dangerous go Not dangerous go Not dangerous go Transport in acco 15. Regul Xi: Irritant system and skin. es. e immediately with pla	oods. oods. ordance with lo atory Inf	ormation		and dizziness



SAFETY DATA SHEET BRM bromodomain Ligand/APC Acceptor

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Mixture

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Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. BRM bromodomain Ligand/APC Acceptor	NA	No	No	No	No
Mixture					
2. Sodium azide	26628-22-8	Yes 500 LB	Yes 1000 LB	Yes	No
Other US EPA or State Lists	·	•	·	·	•
Hazardous Components (Chemical Name)	CAS #	CAA HAP,ODC	CWA NPDES	TSCA	CA PROP.65
1. BRM bromodomain Ligand/APC Acceptor	NA	No	No	No	No
Mixture					
2. Sodium azide	26628-22-8	No	No	Inventory	No
Regulatory Information Statement:	This SDS was pre	epared in accordanc	e with 29 CFR 1910	.1200, Regulation (EC	C) No.1272/2008,
	and European Dir	ective 67/548/EEC	as amended.		

16. Other Information

Revision Date:

03/18/2013

Company Policy or Disclaimer

For research use only, not for human or veterinary use.

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.

N.A.=Not available, N.P.=Not applicable, N.D.=Not determined, N.E.=Not established, N.R.=Not required