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			Supersedes Revision: 10/11/2013
	accordi	ng to Regulation (EC) No. 1907/2006 as amended by (E	EC) No. 1272/2008
	Section 1. Ide	ntification of the Substance/Mixture and of the	e Company/Undertaking
1.1		600503	
	Product Name:	TR-FRET Assay Buffer (10X)	
1.2		of the substance or mixture and uses advi	-
	Relevant identified uses:	For research use only, not for human or vete	erinary use.
1.3		the Safety Data Sheet: Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	
		www.caymanchem.com Cayman Chemical Company	+1 (734)971-3335
1.4	Emergency telephone nui Emergency Contact:	mber: CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887
		Section 2. Hazards Identifica	ation
2.1 2.1.1	Classification of the Subs Classification according Skin Corrosion/Irritation, Serious Eye Damage/Eye Skin Sensitization, Catego	to Regulation (EC) No 1272/2008 [CLP]: Category 2 Irritation, Category 2	
2.1.2		to Directive 1999/45/EC: 3	
2.2 2.2.1	Label Elements:	gulation (EC) No 1272/2008 [CLP]:	
		3	
	GHS Signal Word:	Warning	
	GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye i H317: May cause an allergi	rritation.	
	P362+364: Take off contam P261: Avoid breathing {dus		
	P332+313: If skin irritation of P305+351+338: IF IN EYES present and easy to do. Con P337+313: If eye irritation p	ash with plenty of soap and water. occurs, get medical advice/attention. 5: Rinse cautiously with water for several mir ntinue rinsing. persists, get medical advice/attention. or rash occurs, seek medical advice/attentior	
			Multi-region forn



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	Storage and Disposal Phrases:			
Pleas	e refer to Section 7 for Storage and Section 1	13 for Disposal inf	ormation.	
.2.2 Labe	eling according to Directive 1999/45/EC:			
X	i i			
	rse Human Health Causes skin irritation.			
	ts and Symptoms: Causes serious eye irritation.	tion		
Enco	Material may be irritating		embranes and u	oper respiratory tract.
	May be harmful by inhala			
	May cause an allergic ski	-		
	May cause respiratory sy			
	To the best of our knowle		nical properties h	ave not been thoroughly
	investigated.		gical properties in	ave not been thoroughly
		// /	<u> </u>	
	Section 3. Composition	n/Information	on Ingredie	ents
CAS # /	Hazardous Components (Chemical Name)/	Concentration	EC No./	Risk Phrases/
RTECS #	REACH Registration No.		EC Index No.	GHS Classification
7365-45-9	HEPES, free acid	10.0 -20.0 %	230-907-9	Xi; R36/38
FL6809000			NA	Skin Corr. 2: H315
				Eye Damage 2A: H319
7647-14-5	Sodium chloride	0.0 -5.0 %	231-598-3	Xi; R36
/Z4725000			NA	Eye Damage 2A: H319
NA	TR-FRET Assay Buffer	0.0 -5.0 %	NA	Xi; R36-43
NA			NA	Skin Sens. 1: H317
				Eye Damage 2: H319
7732-18-5	Water	70.0 -90.0 %	231-791-2	No phrases apply.
ZC0110000			NA	No data available.
		•	1	•
	Section 4 Fi	irst Aid Meas	sures	
	Section 4. Fi	irst Aid Meas	sures	
.1 Desci Meas	ription of First AidNo data available.	irst Aid Meas	sures	

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 SkinImmediately wash skin with soap and plenty of water for at least 15 minutes. Remove<br/>contaminated clothing. Get medical attention if symptoms occur. Wash clothing before<br/>reuse.
- In Case of EyeHold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyesContact: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.



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				. Fire Fighting I				
5.1	Suitab Media:	• •			kide, water, or dry chemica	al spray.		
	Unsuit			o cool fire-exposed co am may be inefficient.				
		uishing Media:	A Solid water Strea	ani may be menicient.				
5.2	-	-	No data available					
		azards:						
	Flash	Pt:	No data.					
	Explos	sive Limits:	LEL: No data.	UE	EL: No data.			
	Autoig	nition Pt:	No data.					
5.3	Fire Fi		•		thing apparatus pressure-			
	Instruc	ctions:	approved or equiv	alent), and full protec	tive gear to prevent contact	ct with skin and eyes.		
			Section 6. A	ccidental Releas	se Measures			
6.1				apors and provide ad				
		tive Equipment nergency			approved self-contained bi otection (rubber boots, sat	0 11		
	Proce	• •	rubber gloves).			lety goggles, and neav		
6.2	Enviro	nmental	<b>e</b> ,	oid release into the en	vironment, if safe to do so			
	Precau	utions:	·					
6.3	Metho	ds and Material						
		ontainment and	Transfer to a che	mical waste container	for disposal in accordanc	e with local regulations		
	Cleani	ng Up:						
			Section /	<ol> <li>Handling and</li> </ol>	Storage			
7.1		utions To Be	Avoid breathing dust/fume/gas/mist/vapours/spray.					
7 0		in Handling:		or repeated exposure.				
7.2		utions To Be in Storing:	Keep container tightly closed. Store in accordance with information listed on the product insert.					
	Taken				-			
			•	ure Controls/Pe	rsonal Protection			
8.1	•	ure Parameters:				1_		
CAS		Partial Chemical	Name	Britain EH40	France VL	Europe		
	65-45-9	HEPES, free acid		No data.	No data.	No data.		
764	47-14-5	Sodium chloride		No data.	No data.	No data.		
NA TR-FRET A		TR-FRET Assay E	Buffer	No data.	No data.	No data.		
	32-18-5	Water		No data.	No data.	No data.		
CAS	#	Partial Chemical	Name	OSHA TWA	ACGIH TWA	Other Limits		
	65-45-9	HEPES, free acid		No data.	No data.	No data.		
764	47-14-5	Sodium chloride		No data.	No data.	No data.		
	NA	TR-FRET Assay E	Buffer	No data.	No data.	No data.		
	32-18-5	Water		No data.	No data.	No data.		



8.2	Exposure Controls:	
8.2.1	Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to
	(Ventilation etc.):	control airborne levels below recommended exposure limits.
8.2.2	•	
	Eye Protection:	Safety glasses
	Protective Gloves:	Compatible chemical-resistant gloves
	Other Protective	Lab coat
	Clothing:	
	Respiratory Equipmen (Specify Type):	t NIOSH approved respirator, as conditions warrant.
	Work/Hygienic/Mainter	
	ance Practices:	Facilities storing or utilizing this material should be equipped with an eyewash and a
		safety shower.
		Wash thoroughly after handling.
		ection 9. Physical and Chemical Properties
9.1		Physical and Chemical Properties
	Physical States:	[]Gas [X]Liquid []Solid
	Appearance and Odor:	
	pH:	8.0
	Melting Point:	No data.
	Boiling Point:	No data.
	Flash Pt:	No data.
	Evaporation Rate:	No data.
	Explosive Limits:	LEL: No data. UEL: No data.
	Vapor Pressure (vs. Ai mm Hg):	r or No data.
	Vapor Density (vs. Air	= 1): No data.
	Specific Gravity (Water	r = 1): No data.
	Solubility in Water:	No data.
	Autoignition Pt:	No data.
9.2	Other Information	
	Percent Volatile:	No data.
		Section 10. Stability and Reactivity
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 -	No data available.
10.5	Materials To Avoid:	
10.6	Hazardous Decomposition Or Byproducts:	No data available.



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			Section	11. Toxico	logical Info	rmation	
11.1		ation on logical Effects:	The toxicolog	ical effects of t	his product have	e not been thoroughl	y studied.
Carciı	nogenic	ity:	NTP? No	IARC Monog	raphs? No	OSHA Regulated? N	10
			Section	n 12. Ecolo	ogical Inform	nation	
12.1	Toxicit	y:	Avoid release	into the enviro	onment.		
			Runoff from fi	re control or di	lution water may	y cause pollution.	
			Section	13. Dispos	sal Conside	erations	
13.1	Waste Method	Disposal J:	Dispose in ac	cordance with	local, state, and	l federal regulations.	
			Sectio	n 14. Tran	sport Inforr	nation	
D	OT Prop OT Haza N/NA Nu	TRANSPORT ( per Shipping Na ard Class: umber: TRANSPORT (1	me: Not dange				
UI Ha 14.3 IC Addit	N Numb azard C AIR T AO/IAT		AO/IATA): ne: Not dange	•	h local, state, a	nd federal regulation	S.
			Sectior	n 15. Regu	latory Inform	mation	
EPA S	SARA (Si	uperfund Amendn	nents and Reaut	thorization Act	of 1986) Lists		
CAS #	ŧ	Hazardous Com	ponents (Chem	ical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7365	5-45-9	HEPES, free acid	d		No	No	No
7647	7-14-5	Sodium chloride			No	No	No
	NA	TR-FRET Assay	Buffer		No	No	No
7732	2-18-5	Water			No	No	No
CAS #	±	Hazardous Com	ponents (Chem	ical Name)	Other US FPA	or State Lists	
	5-45-9	HEPES, free acid					No; TSCA: Inventory; CA
7647	7-14-5	Sodium chloride			CAA HAP,OD PROP.65: No	C: No; CWA NPDES: I	No; TSCA: Inventory; CA
	NA	TR-FRET Assay	Buffer		CAA HAP,OD PROP.65: No	C: No; CWA NPDES: I	No; TSCA: No; CA
7732	2-18-5	Water			CAA HAP,OD PROP.65: No	C: No; CWA NPDES: I	No; TSCA: Inventory; CA



European Community	Hazard Symbol codes:
	Xi
European Community	Risk and Safety Phrases:
R36/38	Irritating to eyes and skin.
R43	May cause sensitization by skin contact.
S24/25	Avoid contact with skin and eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
Regulatory Information Statement:	This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and European Directive 67/548/EEC as amended.
	Section 16. Other Information
Revision Date:	03/04/2014
Additional Information . This Product:	About 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: 03/04/2014

CHIM	TCAL	•	Revision: 03/04/2014 Supersedes Revision: 10/11/2013
	ac	cording to Regulation (EC) No. 1907/2006 as amended by (	
	Section 1.	Identification of the Substance/Mixture and of the	e Company/Undertaking
1.1	Product Code: Product Name:	600504 TR-FRET Assay Buffer Additive	
1.2	Relevant identified us	es of the substance or mixture and uses adv	vised against:
	Relevant identified us	es: For research use only, not for human or ve	terinary use.
1.3	Details of the Supplier Company Name: Web site address:	r of the Safety Data Sheet: Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 www.caymanchem.com	
	Information:	Cayman Chemical Company	+1 (734)971-3335
1.4	Emergency telephone Emergency Contact:	number: CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887
		Section 2. Hazards Identifica	· · ·
2.2 2.2.1	Label Elements:	ases: see SECTION 15. o Regulation (EC) No 1272/2008 [CLP]:	
	GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallo GHS Precaution Phras P264: Wash {hands} the GHS Response Phras	ses: proughly after handling.	
	•	WED: Call a POISON CENTER or doctor/physi	cian if you feel unwell.
2.2.2		oosal Phrases: 7 for Storage and Section 13 for Disposal inform • Directive 1999/45/EC:	nation.
	Xn		



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2.3			h Harmful if swallowed. Material may be irritating to May be harmful by inhalat May cause eye, skin, or re To the best of our knowled investigated.	ion or skin absorp espiratory system i	tion. irritation.		
		Sec	tion 3. Composition	/Information	on Ingredie	ents	
CAS RTEC		Hazardous Com REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	Risk Phrases/ GHS Classification	
NA NA		TR-FRET Assay Bu	ffer Additive	100.0 %	NA NA	Xn; R22 Acute Tox.(O) 4: H302	
		·	Section 4. Fi	rst Aid Measu	ures		
4.1	Descr Meas	-	<b>d</b> No data available.				
	In Cas	se of Inhalation:	Remove to fresh air. If not personnel. Get immediate	•••		on or give oxygen by trained	
	In Cas Conta	se of Skin act:	Immediately wash skin wit contaminated clothing. Ge reuse.			least 15 minutes. Remove ccur. Wash clothing before	
	In Cas Conta	se of Eye act:	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.				
	In Cas	se of Ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.				
			Section 5. Fire	Fighting Mea	asures		
5.1	Suital Media		Use alcohol-resistant foar Use water spray to cool fi			nemical spray.	
	Unsui Exting	table guishing Media:	A solid water stream may	be inefficient.			
5.2		nable Properties azards:	No data available.				
	Flash		No data.				
	-	sive Limits: gnition Pt:	LEL: No data. No data.	UEL: I	No data.		
5.3	Fire F	ighting ctions:	As in any fire, wear self-co	-	• • •	ssure-demand (NIOSH contact with skin and eyes.	
			Section 6. Accider	tal Release N	Measures		
6.1							
6.2		onmental utions:	Take steps to avoid relea	se into the enviror	nment, if safe to	do so.	
6.3	For C	ods and Material ontainment and ing Up:	Contain spill and collect, a Transfer to a chemical wa		disposal in acco	ordance with local regulations	
						Multi-region forma	



				INET Assay Du		Revision: 03/04/20 edes Revision: 10/11/20
			Section	7. Handling an	d Storage	
7.1 7.2	Taken i Precaut Taken i	tions To Be n Handling: tions To Be n Storing: Precautions:	Avoid prolonged Keep container ti	• •		
		Sect	tion 8. Expos	sure Controls/P	ersonal Protection	
8.1	Exposu	ire Parameters:				
CAS	<b>#</b>	Partial Chemical	Name	Britain EH40	France VL	Europe
	NA	TR-FRET Assay E	Buffer Additive	No data.	No data.	No data.
CAS #	¥	Partial Chemical	Name	OSHA TWA	ACGIH TWA	Other Limits
	NA	TR-FRET Assay E	Buffer Additive	No data.	No data.	No data.
8.2 8.2.1	Engine	ure Controls: ering Controls ition etc.):	•		t ventilation, or other engine ended exposure limits.	eering controls to
8.2.2	Eye Pro Protect Other P Clothin Respira (Specify Work/H	tory Equipment y Type):	Safety glasses Compatible chem Lab coat t NIOSH approved	or utilizing this mater		an eyewash and a
		S	ection 9. Phy	sical and Cher	nical Properties	
9.1	Physica Appears Melting Boiling Flash P Evapora Explosi Vapor F mm Hg) Vapor D Specific	al States: ance and Odor: Point: Point: it: ation Rate: ive Limits: Pressure (vs. Air ): Density (vs. Air = c Gravity (Water ity in Water:	No data. No data. No data. No data. LEL: No data. <b>r or</b> No data. = 1): No data.	[]Liquid [X] d	Solid UEL: No data.	



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9.2	Other Information				
	Percent Volatile:	No data.			
		Section 10. Stabil	ity and React	tivity	
10.1	Reactivity:	No data available.			
10.2	Stability:	Unstable [ ] Stable [ X	]		
10.3	Stability Note(s):	Stable if stored in accordance	e with information	listed on the proc	duct insert.
	Polymerization:	Will occur [ ] Will not or	ccur[X]		
10.4	Conditions To Avoid:	No data available.			
10.5	Incompatibility - Materials To Avoid:	strong oxidizing agents			
10.6	Hazardous	No data available.			
	Decomposition Or Byproducts:				
		Section 11. Toxico	logical Inform	nation	
11.1	Information on Toxicological Effects:	The toxicological effects of the	his product have n	ot been thorough	ly studied.
Carci	nogenicity:	NTP? No IARC Monogi	raphs? No OS	SHA Regulated?	No
		Section 12. Ecolo	ogical Informa	ition	
12.1	Toxicity:	Avoid release into the enviro Runoff from fire control or dil		ause pollution	
			-	•	
		Section 13. Dispos			
13.1	Waste Disposal Method:	Dispose in accordance with	local, state, and fe	deral regulations.	
		Section 14. Tran	sport Informa	ation	
14.1	LAND TRANSPORT (	JS DOT):			
D	OT Proper Shipping Na OT Hazard Class: N/NA Number:	me: Not dangerous goods.			
14.1	LAND TRANSPORT (I	European ADR/RID):			
U	DR/RID Shipping Name: N Number:	Not dangerous goods.			
	azard Class:				
14.3 ור	AIR TRANSPORT (IC/ AO/IATA Shipping Nam				
	tional Transport	Transport in accordance wit	h local, state and	federal regulation	IS.
	mation:				
		Section 15. Regu	latory Informa	ation	
			of 1086) Lists		
EPA S	SARA (Superfund Amendn	nents and Reauthorization Act			
EPA S CAS #		nents and Reauthorization Act of ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
CAS #		ponents (Chemical Name)	-	<b>S. 304 RQ</b> No	<b>S. 313 (TRI)</b> No
CAS #	#         Hazardous Com           NA         TR-FRET Assay	ponents (Chemical Name)	S. 302 (EHS)	No	



	· · · ·
European Community Ha	azard Symbol codes:
	Xn
European Community Ri	sk and Safety Phrases:
R22	Harmful if swallowed.
S24/25	Avoid contact with skin and eyes.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
Regulatory Information	This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and
Statement:	European Directive 67/548/EEC as amended.
	Section 16. Other Information
Revision Date:	03/04/2014
Additional Information At	
This Product:	שנו זיט עמנמ מימוומטוב.
Company Policy or	DISCLAIMER: This information is believed to be accurate and represents the best
Disclaimer:	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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	Section	. Identification of the Substan	ice/Mixture and of	f the Company/U	Indertaking	
.1	Product Code:	600507			, , , , , , , , , , , , , , , , , , ,	
	Product Name:	H4 Positive Control				
1.2	Relevant identified u	ses of the substance or mix	cture and uses a	dvised against	:	
	Relevant identified u	ses: For research use only, r	not for human or	veterinary use.		
1.3	Details of the Suppl	er of the Safety Data Sheet:				
	Company Name:	Cayman Chemical Com 1180 E. Ellsworth Rd.	ipany			
		Ann Arbor, MI 48108				
	Web site address:	www.caymanchem.com	ı			
	Information:	Cayman Chemical Com	ipany	+1 (73	4)971-3335	
1.4	Emergency telephor					
	Emergency Contact	CHEMTREC Within US CHEMTREC Outside U		· ·	0)424-9300 3)527-3887	
				``	5)521-5001	
. <u> </u>		Section 2. Haz		cation		
2.1		Substance or Mixture:	4070/0000 101 -			
2.1.1		ding to Regulation (EC) No		]:		
2.1.2	Risk Phrases:	ding to Directive 1999/45/E0	J:			
	Risk Phrases: For full text of R- phrases: see SECTION 15.					
		rases: see SECTION 15.				
2.2		rases: see SECTION 15.				
	For full text of R- ph Label Elements:	rases: see SECTION 15. to Regulation (EC) No 1272/	/2008 [CLP]:			
	For full text of R- ph Label Elements:		/2008 [CLP]:			
	For full text of R- ph Label Elements: Labeling according GHS Signal Word: GHS Hazard Phrase	to Regulation (EC) No 1272				
	For full text of R- ph Label Elements: Labeling according GHS Signal Word: GHS Hazard Phrase Based on evaluation of	to Regulation (EC) No 1272/ s: of currently available data this		ture is not class	ifiable according to GHS	
	For full text of R- ph Label Elements: Labeling according GHS Signal Word: GHS Hazard Phrase Based on evaluation of GHS Precaution Phr	to Regulation (EC) No 1272/ s: of currently available data this		tture is not class	ifiable according to GHS	
	For full text of R- ph Label Elements: Labeling according GHS Signal Word: GHS Hazard Phrase Based on evaluation of GHS Precaution Phr No phrases apply.	to Regulation (EC) No 1272/ :: of currently available data this ases:		tture is not class	ifiable according to GHS	
	For full text of R- ph Label Elements: Labeling according GHS Signal Word: GHS Hazard Phrase Based on evaluation of GHS Precaution Phr No phrases apply. GHS Response Phra	to Regulation (EC) No 1272/ :: of currently available data this ases:		ture is not class	ifiable according to GHS	
2.2 2.2.1	For full text of R- ph Label Elements: Labeling according GHS Signal Word: GHS Hazard Phrase Based on evaluation of GHS Precaution Phr No phrases apply. GHS Response Phra No phrases apply.	to Regulation (EC) No 1272/ s: of currently available data this ases: ses:		tture is not class	ifiable according to GHS	
	For full text of R- ph Label Elements: Labeling according GHS Signal Word: GHS Hazard Phrase Based on evaluation of GHS Precaution Phr No phrases apply. GHS Response Phra No phrases apply. GHS Storage and Di	to Regulation (EC) No 1272/ s: of currently available data this ases: ses:	substance or mix		ifiable according to GHS	
2.2.1	For full text of R- ph Label Elements: Labeling according GHS Signal Word: GHS Hazard Phrase Based on evaluation of GHS Precaution Phr No phrases apply. GHS Response Phra No phrases apply. GHS Storage and Di Please refer to Section	to Regulation (EC) No 1272/ s: of currently available data this ases: ses: sposal Phrases: n 7 for Storage and Section 13	substance or mix		ifiable according to GHS	
2.2.1	For full text of R- ph Label Elements: Labeling according GHS Signal Word: GHS Hazard Phrase Based on evaluation of GHS Precaution Phr No phrases apply. GHS Response Phra No phrases apply. GHS Storage and Di Please refer to Section Labeling according	to Regulation (EC) No 1272/ s: of currently available data this ases: ses: sposal Phrases: n 7 for Storage and Section 13 to Directive 1999/45/EC:	substance or mix 3 for Disposal info	ormation.		
2.2.1	For full text of R- pr Label Elements: Labeling according GHS Signal Word: GHS Hazard Phrase Based on evaluation of GHS Precaution Phr No phrases apply. GHS Response Phra No phrases apply. GHS Storage and Di Please refer to Section Labeling according Adverse Human Hea	to Regulation (EC) No 1272/ s: of currently available data this ases: ses: sposal Phrases: n 7 for Storage and Section 13	substance or mix 3 for Disposal info o the mucous me	ormation. embranes and up	oper respiratory tract.	
2.2.1	For full text of R- pr Label Elements: Labeling according GHS Signal Word: GHS Hazard Phrase Based on evaluation of GHS Precaution Phr No phrases apply. GHS Response Phra No phrases apply. GHS Storage and Di Please refer to Section Labeling according Adverse Human Hea	to Regulation (EC) No 1272/ s: of currently available data this ases: ses: n 7 for Storage and Section 13 to Directive 1999/45/EC: Ith Material may be irritating t ns: May be harmful by inhalati May cause eye, skin, or re	substance or mix 3 for Disposal info o the mucous me ion, ingestion, or espiratory system	ormation. embranes and up skin absorption. irritation.	oper respiratory tract.	
2.2.1	For full text of R- pr Label Elements: Labeling according GHS Signal Word: GHS Hazard Phrase Based on evaluation of GHS Precaution Phr No phrases apply. GHS Response Phra No phrases apply. GHS Storage and Di Please refer to Section Labeling according Adverse Human Hea	to Regulation (EC) No 1272/ s: of currently available data this ases: ses: n 7 for Storage and Section 13 to Directive 1999/45/EC: Ith Material may be irritating t ns: May be harmful by inhalati May cause eye, skin, or re To the best of our knowled	substance or mix 3 for Disposal info o the mucous me ion, ingestion, or espiratory system	ormation. embranes and up skin absorption. irritation.	oper respiratory tract.	
2.2.1	For full text of R- ph Label Elements: Labeling according GHS Signal Word: GHS Hazard Phrase: Based on evaluation of GHS Precaution Phr No phrases apply. GHS Response Phra No phrases apply. GHS Storage and Di Please refer to Section Labeling according Adverse Human Hea Effects and Sympton	to Regulation (EC) No 1272/ S: of currently available data this ases: ses: sposal Phrases: n 7 for Storage and Section 13 to Directive 1999/45/EC: Ith Material may be irritating t ns: May be harmful by inhalati May cause eye, skin, or re To the best of our knowled investigated.	substance or mix 3 for Disposal info o the mucous me ion, ingestion, or espiratory system dge, the toxicolog	ormation. embranes and up skin absorption. irritation. ical properties h	oper respiratory tract. ave not been thoroughly	
2.2.1	For full text of R- ph Label Elements: Labeling according GHS Signal Word: GHS Hazard Phrase: Based on evaluation of GHS Precaution Phr No phrases apply. GHS Response Phra No phrases apply. GHS Storage and Di Please refer to Section Labeling according Adverse Human Hea Effects and Sympton	to Regulation (EC) No 1272/ s: of currently available data this ases: ses: n 7 for Storage and Section 13 to Directive 1999/45/EC: Ith Material may be irritating t ns: May be harmful by inhalati May cause eye, skin, or re To the best of our knowled	substance or mix 3 for Disposal info o the mucous me ion, ingestion, or espiratory system dge, the toxicolog	ormation. embranes and up skin absorption. irritation. ical properties h	oper respiratory tract. ave not been thoroughly	
2.2.1 2.2.2 2.3	For full text of R- ph Label Elements: Labeling according GHS Signal Word: GHS Hazard Phrase Based on evaluation of GHS Precaution Phr No phrases apply. GHS Response Phra No phrases apply. GHS Storage and Di Please refer to Section Labeling according Adverse Human Hea Effects and Sympton Sec	to Regulation (EC) No 1272/ s: of currently available data this ases: ses: sposal Phrases: n 7 for Storage and Section 13 to Directive 1999/45/EC: Ith Material may be irritating t ms: May be harmful by inhalati May cause eye, skin, or re To the best of our knowled investigated. ction 3. Composition.	substance or mix 3 for Disposal info o the mucous me ion, ingestion, or espiratory system dge, the toxicolog	ormation. embranes and up skin absorption. irritation. ical properties h	oper respiratory tract. ave not been thoroughly ents Risk Phrases/	
2.2.1	For full text of R- ph Label Elements: Labeling according GHS Signal Word: GHS Hazard Phrase Based on evaluation of GHS Precaution Phr No phrases apply. GHS Response Phra No phrases apply. GHS Storage and Di Please refer to Section Labeling according Adverse Human Hea Effects and Sympton Sec	to Regulation (EC) No 1272/ s: of currently available data this ases: ses: sposal Phrases: n 7 for Storage and Section 13 to Directive 1999/45/EC: Ith Material may be irritating t ms: May be harmful by inhalati May cause eye, skin, or re To the best of our knowled investigated. ction 3. Composition.	substance or mix 3 for Disposal info o the mucous me ion, ingestion, or espiratory system dge, the toxicolog	ormation. embranes and up skin absorption. irritation. ical properties h on Ingredie	oper respiratory tract. ave not been thoroughly ents	
2.2.1 2.2.2 2.3	For full text of R- ph Label Elements: Labeling according GHS Signal Word: GHS Hazard Phrase Based on evaluation of GHS Precaution Phr No phrases apply. GHS Response Phra No phrases apply. GHS Storage and Di Please refer to Section Labeling according Adverse Human Hea Effects and Sympton Sec	to Regulation (EC) No 1272/ s: of currently available data this ases: ses: sposal Phrases: n 7 for Storage and Section 13 to Directive 1999/45/EC: Ith Material may be irritating t ns: May be harmful by inhalati May cause eye, skin, or re To the best of our knowled investigated. Ction 3. Composition, mponents (Chemical Name)/ ration No.	substance or mix 3 for Disposal info o the mucous me ion, ingestion, or espiratory system dge, the toxicolog	ormation. embranes and up skin absorption. irritation. ical properties h on Ingredie EC No./	oper respiratory tract. ave not been thoroughly ents Risk Phrases/	



		Section 4	4. First Aid Measure	es			
4.1	Description of First A Measures:	idNo data available.					
	In Case of Inhalation:		. If not breathing, give artificed attention.	cial respiration or give ox	ygen by trained		
	In Case of Skin Immediately wash skin with soap and plenty of water for at least 15 minutes. Remo Contact: contaminated clothing. Get medical attention if symptoms occur. Wash clothing bef 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:	to an unconscious p	th water provided person is person. Get medical attentic medical personnel.	-			
		Section 5.	Fire Fighting Meas	ures			
5.1	Suitable Extinguishin Media:	•	nt foam, carbon dioxide, wa cool fire-exposed container		у.		
	Unsuitable		m may be inefficient.				
5.2	Extinguishing Media: Flammable Properties and Hazards:						
	Flash Pt:	No data.					
	Explosive Limits:	LEL: No data.	UEL: No	data.			
	Autoignition Pt:	No data.					
5.3	Fire Fighting Instructions:	•	self-contained breathing an lent), and full protective gea	· ·			
		Section 6. Ac	cidental Release Me	easures			
6.1		As conditions warra	preathing dust, and provide ant, wear a NIOSH approve propriate personal protectior	ed self-contained breathin	• • •		
6.2	Environmental Precautions:	<b>-</b> ,	d release into the environm	ent, if safe to do so.			
6.3	Methods and Materia For Containment and Cleaning Up:		ollect, as appropriate. lical waste container for dis	posal in accordance with	local regulations.		
		Section 7.	Handling and Stor	age			
7.1	Precautions To Be Taken in Handling:	•	Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure.				
7.2	Precautions To Be Taken in Storing:	· •	Keep container tightly closed. Store in accordance with information listed on the product insert.				
	Se	ction 8. Exposu	re Controls/Persona	al Protection			
8.1	Exposure Parameters	S:					
CAS	# Partial Chemica	al Name	Britain EH40	France VL	Europe		
	NA H4 Positive Con	trol	No data.	No data.	No data.		
					Multi-region format		



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CAS #	ŧ	Partial Chemical	Name	OSHA TWA	A	ACGIH TWA	Other Limits
NA H4 Positive Contro		H4 Positive Contro	 ol	No data.		No data.	No data.
3.2	Expos	ure Controls:		•		•	
8.2.1	Engine	ering Controls	Use process enclos	sures, local	exhaust ventilat	ion, or other engineer	ing controls to
	(Ventila	ation etc.):	control airborne lev	els below re	commended ex	posure limits.	
8.2.2	Perso	nal protection e	quipment:				
	Eye Pro	otection:	Safety glasses				
	Protect	tive Gloves:	Compatible chemic	al-resistant	gloves		
	Other F Clothin	Protective lg:	Lab coat				
		atory Equipment y Type):	t NIOSH approved re	espirator, as	conditions war	rant.	
			Do not take interna				
	ance P	ractices:	-	utilizing this	material should	d be equipped with an	eyewash and a
			safety shower. Wash thoroughly a	fter handling	I		
		-	• •			<u> </u>	
		S	ection 9. Phys	sical and	Chemical F	roperties	
9.1	Inform	ation on Basic F	hysical and Chemi	-	ies		
	Physic	al States:		[ ] Liquid	[X] Solid		
		rance and Odor:		d powder			
	-	g Point:	No data.				
	Boiling	·	No data.				
	Flash F		No data.				
	-	ation Rate:	No data.				
	•	ive Limits:	LEL: No dat	ta.	UE	EL: No data.	
	•	Pressure (vs. Ai	r <b>or</b> No data.				
	mm Hg		- A). No doto				
	-	Density (vs. Air : c Gravity (Water	-				
		c Gravity (Water ity in Water:	No data.				
		nition Pt:	No data.				
9.2	-	nformation	no data.				
<b>J.</b> Z		t Volatile:	No data.				
	Fercen	t volatile.					
			Section 10	Stability	and Reac	tivity	
10.1	Reactiv	-	No data available.				
10.2	Stabilit	-		stable [ X ]			
10.3		y Note(s):				listed on the product	insert.
	•	erization:		Will not occu	ır [ X ]		
10.4	Condit	ions To Avoid:	No data available.				
10.5	-	oatibility - als To Avoid:	No data available.				
10.6	Hazard Decom Byproc	position Or	No data available.				
							Multi-region fo



			Section 1	1. Toxicol	ogical Inform	nation	
11.1	Information		The toxicologica	al effects of th	is product have n	ot been thorough	nly studied.
Coroi	Toxicologic	al Effects:	NTP? No I/	ARC Monogra			No
Carci	nogenicity:			<u> </u>	•	SHA Regulated?	
					gical Informa	ition	
12.1	Toxicity:		Avoid release in Runoff from fire		nment. ution water may c	ause pollution.	
	Section 13. Disposal Considerations						
13.1	Waste DisposalDispose in accordance with local, state, and federal regulations.Method:						
			Section	14. Trans	sport Informa	ation	
14.1	LAND TRA	ANSPORT (I	JS DOT):				
D	OT Proper S OT Hazard C N/NA Numbe	lass:	ne: Not dangero	ous goods.			
14.1	LAND TRA	NSPORT (I	European ADR/R	RID):			
	DR/RID Ship	ping Name	Not dangero	ous goods.			
	N Number:						
на 14.3	azard Class:	SPORT (IC/					
		-	e: Not dangero	nne aoode			
	tional Trans		-	-	n local, state, and	federal regulatio	ns.
	mation:				riocal, clato, and	iodoral rogulatio	
			Section 2	15. Regul	atory Informa	ation	
EPA S	SARA (Superf	und Amendn	ents and Reautho	orization Act of	of 1986) Lists		
CAS #	# Haz	ardous Com	ponents (Chemica	al Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
	NA H4	Positive Cont	rol		No	No	No
CAS #	# Haz	zardous Com	ponents (Chemica	al Name)	Other US EPA or	State Lists	
	NA H4	Positive Cont	rol		CAA HAP,ODC: I PROP.65: No	No; CWA NPDES	: No; TSCA: No; CA
	-	-	d Symbol codes				
	-	-	Ind Safety Phras				
S24/2			Avoid contact with	•			
S37/:	39	,	Near suitable glov	ves and eye/i	race protection.		
Requi	latory Inform	nation	This SDS was a	renared in ac	ccordance with Re	aulation (EC) N	n 1272/2008 and
State	•	lation		•	EC as amended.		J. 1272/2000 and
			•		er Informatio	n	
Revis	ion Date:		03/04/2014				
Addit		ation About	No data availabl	le.			
	any Policy o	or	DISCLAIMER: T	This information	on is believed to b	be accurate and	represents the best
							Multi-region forma



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DISC	laimer:

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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		ng to Regulation (EC) No. 1907/2006 as amended by (	
	Section 1. Ide	ntification of the Substance/Mixture and of th	e Company/Undertaking
1.1	Product Code: Product Name:	600931 TAF1 bromodomains 1 and 2 Europium Ch	elate
1.2	Relevant identified uses of	f the substance or mixture and uses adv	vised against:
	Relevant identified uses:	For research use only, not for human or veh	terinary use.
1.3	Details of the Supplier of Company Name:	t <b>he Safety Data Sheet:</b> Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	
	Web site address: Information:	www.caymanchem.com Cayman Chemical Company	+1 (734)971-3335
1.4	Emergency telephone nu Emergency Contact:	<b>nber:</b> CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887
		Section 2. Hazards Identifica	ation
	Acute Toxicity: Oral, Cate Skin Corrosion/Irritation, Serious Eye Damage/Eye Skin Sensitization, Categ	Category 3 Irritation, Category 2A	
2.1.2 2.2 2.2.1	Classification according Xn: Harmful Risk Phrases: R22, R36/3 For full text of R- phrases Label Elements:	8, R43	
		guanon (20) no 12122000 [021 ].	
	GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed H316: Causes mild skin irrit H319: Causes serious eye H317: May cause an allergi	ation. rritation.	
	P261: Avoid breathing {dus P272: Contaminated work of	ghly after handling. res/protective clothing/eye protection/face p /fume/gas/mist/vapours/spray}. lothing should not be allowed out of the wor inated clothing and wash it before reuse.	
	GHS Response Phrases: P301+312: IF SWALLOWE P330: Rinse mouth. P332+313: If skin irritation of	D: Call a POISON CENTER or doctor/physic occurs, get medical advice/attention. S: Rinse cautiously with water for several mi	



	•	t and easy to do. Continue rinsing. 313: If eye irritation persists, get medical adv	vice/attention						
	P302+352: IF ON SKIN: Wash with plenty of soap and water.								
		P333+313: If skin irritation or rash occurs, seek medical advice/attention.							
	GHS S	torage and Disposal Phrases:							
	Please refer to Section 7 for Storage and Section 13 for Disposal information.								
2.2.2	Label	ing according to Directive 1999/45/EC:							
	Xn								
-		se Human Health Causes mild skin irritation s and Symptoms: Causes serious eye irritat Harmful if swallowed. Material may be irritating May be harmful by inhala	tion. to the mucous me		oper respiratory tract.				
		May cause an allergic ski May cause respiratory sy To the best of our knowle investigated.	stem irritation.	ical properties h	ave not been thoroughly				
		May cause respiratory sy To the best of our knowle	stem irritation. edge, the toxicolog						
CAS #	-	May cause respiratory sy To the best of our knowle investigated.	stem irritation. edge, the toxicolog						
	-	May cause respiratory sy To the best of our knowle investigated. Section 3. Composition Hazardous Components (Chemical Name)/	stem irritation. dge, the toxicolog	on Ingredie	nts Risk Phrases/				
<b>RTEC:</b> NA NA 7365-	<b>S #</b> -45-9	May cause respiratory sy To the best of our knowle investigated. Section 3. Composition Hazardous Components (Chemical Name)/ REACH Registration No.	stem irritation. edge, the toxicolog	On Ingredie EC No./ EC Index No. NA	Risk Phrases/ GHS Classification Xn; R22-36-43 Acute Tox.(O) 4: H302 Eye Damage 2A: H319				
RTEC: NA NA	<b>S #</b> -45-9 9000 -14-5	May cause respiratory sy To the best of our knowle investigated. Section 3. Composition Hazardous Components (Chemical Name)/ REACH Registration No. TAF1 bromodomains 1 and 2 Europium Chelate	stem irritation. edge, the toxicolog n/Information Concentration 1.0 -10.0 %	On Ingredie EC No./ EC Index No. NA NA 230-907-9	Risk Phrases/ GHS Classification Xn; R22-36-43 Acute Tox.(O) 4: H302 Eye Damage 2A: H319 Skin Sens. 1: H317 Xi; R36/38 Skin Corr. 2: H315				



4.1	Decerinti					
	Measures		No data available.			
	In Case o	f Inhalation:		. If not breathing, give ediate medical attenti	e artificial respiration or on.	give oxygen by trained
	In Case of Contact:	f Skin	•		nty of water for at least tion if symptoms occur.	
	In Case of Contact:	f Eye	• •	nd flush eyes with ple d by medical personn	enty of water for at least el.	15 minutes. Have eyes
	In Case o	f Ingestion:		erson. Get medical a	son is conscious. Never ttention. Do NOT induce	
			Section 5.	Fire Fighting M	leasures	
5.1	Suitable E Media:	Extinguishing		nt foam, carbon dioxic cool fire-exposed con	de, water, or dry chemic tainers.	al spray.
	Unsuitabl		A solid water stream	n may be inefficient.		
5.2	-	hing Media: le Properties rds:	No data available.			
	Flash Pt:		No data.			
	Explosive	e Limits:	LEL: No data.	UEI	_: No data.	
	Autoignit		No data.			
5.3	Fire Fight Instructio	-	•		ing apparatus pressure ve gear to prevent conta	•
			Section 6. Acc	cidental Releas	e Measures	
6.1		e Equipment gency	As conditions warra	•	quate ventilation. proved self-contained b rection (rubber boots, sa	• • • •
6.2	Environm Precautio		<b>-</b> ,	d release into the envi	ronment, if safe to do s	0.
6.3		and Material ainment and Up:	•	ollect, as appropriate. ical waste container f	or disposal in accordan	ce with local regulation
			Section 7.	Handling and	Storage	
7.1	Precautio Taken in I		Avoid breathing dus Avoid prolonged or	st/fume/gas/mist/vapo repeated exposure.	urs/spray.	
7.2	Precautio		Keep container tigh Store in accordance	•	ed on the product insert	
		Sect	ion 8. Exposu	re Controls/Per	sonal Protection	
3.1	Exposure	Parameters:				
CAS	# Pa	artial Chemical	Name	Britain EH40	France VL	Europe
		AF1 bromodoma nelate	ins 1 and 2 Europium	No data.	No data.	No data.



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-				No data.	No data.	No data.
-	7-14-5	Sodium chloride		No data.	No data.	No data.
CAS #	2-18-5	Water		No data.	No data.	No data.
	ŧ	Partial Chemical Name		OSHA TWA	ACGIH TWA	Other Limits
	NA	TAF1 bromodomains 1 ar Chelate	nd 2 Europium	No data.	No data.	No data.
7365	5-45-9	HEPES, free acid		No data.	No data.	No data.
7647	7-14-5	Sodium chloride		No data.	No data.	No data.
7732	2-18-5	Water		No data.	No data.	No data.
	(Ventili Perso Eye Pr Protec Other I Clothir Respir (Specif	ation etc.):controlnal protection equipmedotection:Safetytive Gloves:CompProtectiveLab c	ol airborne lev e <b>nt:</b> / glasses atible chemic oat H approved re	els below recommende al-resistant gloves espirator, as conditions		ering controls to
	ance P	safety Wash	shower. thoroughly af	-	hould be equipped with a state of the state	an eyewash and a
9.1	Inform	ation on Basic Physica	al and Chemi	cal Properties		
				•		
	-	al States:		[X]Liquid []Soli	id	
	Appea	al States: rance and Odor:	Solution	-	id	
	Appea pH:	rance and Odor:	Solution 8.0	-	id	
	Appear pH: Melting	rance and Odor: g Point:	Solution 8.0 No data.	-	id	
	Appear pH: Melting	rance and Odor:	Solution 8.0	-	id	
	Appear pH: Melting	rance and Odor: g Point: g Point:	Solution 8.0 No data.	-	id	
	Appear pH: Melting Boiling Flash F	rance and Odor: g Point: g Point:	Solution 8.0 No data. No data.	-	id	
	Appear pH: Melting Boiling Flash F Evapor	rance and Odor: g Point: g Point: Pt:	Solution 8.0 No data. No data. No data.	[X]Liquid []Soli	id UEL: No data.	
	Appear pH: Melting Boiling Flash F Evapor Explos	rance and Odor: g Point: g Point: Pt: ration Rate: sive Limits: Pressure (vs. Air or	Solution 8.0 No data. No data. No data. No data.	[X]Liquid []Soli		
	Appear pH: Melting Boiling Flash F Evapor Explos Vapor mm Hg	rance and Odor: g Point: g Point: Pt: ration Rate: sive Limits: Pressure (vs. Air or	Solution 8.0 No data. No data. No data. No data. LEL: No dat	[X]Liquid []Soli		
	Appear pH: Melting Boiling Flash F Evapor Explos Vapor mm Hg Vapor	rance and Odor: g Point: g Point: Pt: ration Rate: sive Limits: Pressure (vs. Air or g):	Solution 8.0 No data. No data. No data. No data. LEL: No dat No data.	[X]Liquid []Soli		
	Appear pH: Melting Boiling Flash F Evapor Explos Vapor mm Hg Vapor Specifi	rance and Odor: g Point: g Point: Pt: ration Rate: sive Limits: Pressure (vs. Air or g): Density (vs. Air = 1):	Solution 8.0 No data. No data. No data. LEL: No dat No data. No data.	[X]Liquid []Soli		



9.2	Other Information					
	Percent Volatile:	No data.				
		Section 10. Stabil	ity and Reac	tivity		
10.1	Reactivity:	No data available.				
10.2	Stability:	Unstable [ ] Stable [ X ]				
10.3	3 Stability Note(s): Stable if stored in accordance with information listed on the product insert.					
	Polymerization:	Will occur [ ] Will not oc	cur [ X ]			
10.4	Conditions To Avoid:	No data available.				
	Incompatibility - Materials To Avoid:	No data available.				
	Hazardous Decomposition Or Byproducts:	No data available.				
		Section 11. Toxicol	logical Inforn	nation		
	Information on Toxicological Effects:	The toxicological effects of th	his product have r	not been thorough	ly studied.	
Carcin	ogenicity:	NTP? No IARC Monogr	aphs? No O	SHA Regulated?	No	
		Section 12. Ecolo	gical Informa	ation		
12.1	Toxicity:	Avoid release into the environ Runoff from fire control or dil		cause pollution.		
		Section 13. Dispos	al Considera	ations		
	Waste Disposal Method:	Dispose in accordance with I	ocal, state, and fe	ederal regulations		
		Section 14. Trans	sport Informa	ation		
14.1	LAND TRANSPORT (	US DOT):				
DC DC		me: Not dangerous goods.				
14.1	LAND TRANSPORT (I	European ADR/RID):				
	DR/RID Shipping Name:	•				
	Number:					
На	zard Class:					
14.3	AIR TRANSPORT (IC	AO/IATA):				
IC/	AO/IATA Shipping Nam	ne: Not dangerous goods.				
	ional Transport nation:	Transport in accordance with	n local, state, and	federal regulation	NS.	
		Section 15. Regul	atory Inform	ation		
EPA S	ARA (Superfund Amendn	nents and Reauthorization Act o	of 1986) Lists			
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
<u>CA3</u> #	NA TAF1 bromodom	ains 1 and 2 Europium Chelate	No	No	No	
		k	No	No	No	
N	-45-9 HEPES, free acid	ł	No No	No No	No No	



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CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists				
NA	TAF1 bromodomains 1 and 2 Europium Chelate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
7365-45-9	HEPES, free acid	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Inventory; CA PROP.65: No				
7647-14-5	Sodium chloride	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Inventory; CA PROP.65: No				
7732-18-5	Water	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Inventory; CA PROP.65: No				
_						
European C	ommunity Hazard Symbol codes:					
	Xn					
European C	ommunity Risk and Safety Phrases:					
R22	Harmful if swallowed.					
R36/38	Irritating to eyes and skin.					
R43	May cause sensitization by sl	kin contact.				
S24/25	Avoid contact with skin and e	Avoid contact with skin and eyes.				
S26	In case of contact with eyes,	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.				
S36/37/39		Wear suitable protective clothing, gloves and eye/face protection.				
Regulatory li Statement:	nformation This SDS was prepared in a European Directive 67/548/	accordance with Regulation (EC) No.1272/2008 and EEC as amended.				
	Section 16. Ot	her Information				
Revision Dat						
	formation About No data available.					
Company Po Disclaimer:	information currently availab or any other warranty, expre assume no liability resulting	tion is believed to be accurate and represents the best ble to us. However, we make no warranty of merchantability ess or implied, with respect to such information, and we from its use. Users should make their own investigations to he information for their particular purposes.				



# SAFETY DATA SHEET TAF1 bromodomains 1 and 2 Ligand/APC Acceptor Revision: 03/04/2014

ayını		Mixture	Revision: 03/04/201				
	acc	ording to Regulation (EC) No. 1907/2006 as amended by (	EC) No. 1272/2008				
	Section 1.	Identification of the Substance/Mixture and of th	e Company/Undertaking				
1.1	Product Code: Product Name:	600932 TAF1 bromodomains 1 and 2 Ligand/APC /	Acceptor Mixture				
1.2	Relevant identified use	Relevant identified uses of the substance or mixture and uses advised against:					
	Relevant identified use	s: For research use only, not for human or vet	erinary use.				
1.3	Company Name:	of the Safety Data Sheet: Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108					
	Web site address: Information:	www.caymanchem.com Cayman Chemical Company	+1 (734)971-3335				
1.4	Emergency telephone Emergency Contact:	number: CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887				
		Section 2. Hazards Identifica	ation				
2.1.2 2.2 2.2.1	Target Organ Systemic Aquatic Toxicity (Chro Classification accordi Xn: Harmful Risk Phrases: R22, R3 For full text of R- phra Label Elements:	ng to Directive 1999/45/EC: 3, R36/37/38					
	H412: Harmful to aquation	irritation. ye irritation.	oosure.				



## SAFETY DATA SHEET TAF1 bromodomains 1 and 2 Ligand/APC Acceptor Revision: 03/04/2014

#### Mixture

#### **GHS Precaution Phrases:**

P264: Wash {hands} thoroughly after handling.

P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

P261: Avoid breathing {dust/fume/gas/mist/vapours/spray}.

P260: Do not breathe {dust/fume/gas/mist/vapours/spray}.

P273: Avoid release to the environment.

#### **GHS Response Phrases:**

P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330: Rinse mouth.

P332+313: If skin irritation occurs, get medical advice/attention.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+313: If eye irritation persists, get medical advice/attention.

P309+311: Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P314: Get medical attention/advice if you feel unwell.

#### **GHS Storage and Disposal Phrases:**

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

#### 2.2.2 Labeling according to Directive 1999/45/EC:



#### Xn

2.3

Adverse Human Health Causes mild skin irritation.

Effects and Symptoms: Causes serious eye irritation.

Harmful if swallowed.

Harmful to aquatic life with long lasting effects.

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

May be harmful by inhalation or skin absorption.

May cause damage to {lungs} through prolonged or repeated exposure.

May cause respiratory irritation.

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

#### Section 3. Composition/Information on Ingredients

CAS # / RTECS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	Risk Phrases/ GHS Classification
NA NA	TAF1 bromodomains 1 and 2 Ligand/APC Acceptor Mixture	99.6 -100.0 %	NA NA	Xn; R22-36/37/38-33 Acute Tox.(O) 4: H302 Skin Corr. 3: H316 Eye Damage 2A: H319 TOST (SE) 3: H335 H336 TOST (RE) 2: H373
26628-22-8 VY8050000	Sodium azide	0.0 -0.4 %	247-852-1 011-004-00-7	T+;N; R28-32-50/53 Acute Tox.(O) 2: H300 Acute Tox.(D) 1: H310 TOST (RE) 2: H373 Aquatic (C) 1: H410



# SAFETY DATA SHEET Page: TAF1 bromodomains 1 and 2 Ligand/APC Acceptor Revision: 03/04/2014

Mixture

		Section 4	4. First Aid Measu	res	
4.1	Description of First Aid Measures:	<b>d</b> No data available.			
	In Case of Inhalation:		r. If not breathing, give artinediate medical attention.	ificial respiration or g	give oxygen by trained
	In Case of Skin Contact:	•	skin with soap and plenty on ng. Get medical attention		
	In Case of Eye Contact:		and flush eyes with plenty ed by medical personnel.	of water for at least	15 minutes. Have eyes
	In Case of Ingestion:	to an unconscious p	th water provided person i person. Get medical atten medical personnel.		
		Section 5.	Fire Fighting Mea	sures	
5.1	Suitable Extinguishing Media:		nt foam, carbon dioxide, v cool fire-exposed contain	•	al spray.
	Unsuitable	A solid water strear	m may be inefficient.		
5.2	Extinguishing Media: Flammable Properties and Hazards:	No data available.			
	Flash Pt:	No data.			
	Explosive Limits:	LEL: No data.	UEL: N	lo data.	
	Autoignition Pt:	No data.			
5.3	Fire Fighting Instructions:		self-contained breathing lent), and full protective g		,
		Section 6. Ac	cidental Release M	leasures	
6.1		As conditions warr	preathing dust, and provid ant, wear a NIOSH appro- propriate personal protection	ved self-contained b	reathing apparatus, or
6.2	Environmental Precautions:	<b>e</b> ,	d release into the environ	ment, if safe to do so	).
6.3	Methods and Material For Containment and Cleaning Up:	•	ollect, as appropriate. nical waste container for d	isposal in accordanc	ce with local regulations.
		Section 7.	Handling and Sto	orage	
7.1	Precautions To Be Taken in Handling:	-	st/fume/gas/mist/vapours/ repeated exposure.	spray.	
7.2	Precautions To Be Taken in Storing:	Keep container tigh Store in accordance	ntly closed. e with information listed or	n the product insert.	
	Sec	tion 8. Exposu	re Controls/Persor	nal Protection	
8.1	Exposure Parameters:				
CAS	# Partial Chemical	Name	Britain EH40	France VL	Europe
	NA TAF1 bromodoma Ligand/APC Acce		No data.	No data.	No data.
					Multi-region format



#### SAFETY DATA SHEET TAF1 bromodomains 1 and 2 Ligand/APC Acceptor Revision: 03/04/2014 Mixture

			Mixture	1	
26628-22-	-8 Sodium azide		TWA: 0.1 mg/m3 ()	TWA: 0.1 mg/m3	TWA: 0.1 mg/m3
			STEL: 0.3 mg/m3 ()	STEL: 0.3 mg/m3	STEL: 0.3 mg/m3
CAS #	Partial Chemical Name           IA         TAF1 bromodomains 1 and 2 Ligand/APC Acceptor Mixture		OSHA TWA	ACGIH TWA	Other Limits
NA			No data.	No data.	No data.
26628-22-	-8 Sodium azide		No data.	CEIL: 0.29 mg/m3	No data.
3.2 Exp	osure Controls:		·		
-	ineering Controls ntilation etc.):	•	closures, local exhaust v levels below recommend	entilation, or other enginee ded exposure limits.	ering controls to
3.2.2 Pe	rsonal protection e	quipment:			
Eye	Protection:	Safety glasses			
Pro	tective Gloves:	Compatible cher	nical-resistant gloves		
	er Protective thing:	Lab coat			
(Sp	piratory Equipmen ecify Type): rk/Hygienic/Mainter		d respirator, as condition	is warrant.	
	e Practices:		or utilizing this material	should be equipped with a	n eyewash and a
	S	ection 9 Ph	ysical and Chemi	cal Properties	
) 1 Info					
	ormation on Basic F	-	-	1:-1	
-	vsical States:	[]Gas	[] Liquid [X] So	ma	
	bearance and Odor:	No data.	zed powder		
	ting Point:	No data. No data.			
	ling Point: sh Pt:				
		No data.			
	poration Rate:	No data.	data	UEL. No doto	
-	losive Limits:	LEL: No	Jala.	UEL: No data.	
-	oor Pressure (vs. Ai Hg):	<b>r or</b> No data.			
	пр). or Density (vs. Air	<b>= 1):</b> No data.			
•	cific Gravity (Wate	•			
-	ubility in Water:	$\mathbf{r} = \mathbf{r}$ . No data. No data.			
	oignition Pt:	No data.			
	er Information	no uala.			
Per	cent Volatile:	No data.			
		Section 1	0. Stability and R	leactivity	
10.1 Rea	ctivity:	No data available			
0.2 Stal	bility:	Unstable [ ]	Stable [ X ]		
0.3 Stal	bility Note(s):	Stable if stored in	n accordance with inform	nation listed on the produc	t insert.
Poly	ymerization:	Will occur [ ]	Will not occur [ X ]		
10.4 Con	nditions To Avoid:	No data available	э.		
	ompatibility - erials To Avoid:	No data available	e.		
10.6 Haz	ardous	No data available	э.		
Dec	composition Or				
					Multi-region for



# SAFETY DATA SHEET TAF1 bromodomains 1 and 2 Ligand/APC Acceptor Revision: 03/04/2014

Mixture

		Section	11. Toxic	ological Inforr	nation	
	ation on ological Effects:			this product have		y studied.
arcinogenio	•	NTP? No	IARC Mono	graphs? No C	SHA Regulated? N	No
		Sectio	n 12. Ecol	ogical Inform	ation	
2.1 Toxicit	ty:		e into the envi	ronment. dilution water may (	cause pollution	
		-		sal Consider		
3.1 Waste Metho	Disposal d:		•	n local, state, and f		
		Section	on 14. Tra	nsport Inform	ation	
4.1 LAND	D TRANSPORT (			•		
-	per Shipping Na ard Class: umber:	me: Not dang	jerous goods.			
	Shipping Name	. Not dang	jerous goods.			
UN Numb Hazard C 4.3 AIR T ICAO/IAT dditional T	ber: Class: RANSPORT (IC/ A Shipping Nam ransport	AO/IATA): ne: Not dang	jerous goods.	ith local, state, and	l federal regulation	S.
UN Numb Hazard C 4.3 AIR T ICAO/IAT dditional T	ber: Class: RANSPORT (IC/ A Shipping Nam ransport	<b>AO/IATA):</b> ne: Not dang Transport in	gerous goods. accordance w			S.
UN Numb Hazard C 4.3 AIR T ICAO/IAT additional T oformation:	ber: Class: RANSPORT (IC/ A Shipping Nam ransport	AO/IATA): ne: Not dang Transport in Sectio	jerous goods. accordance w n 15. Regi	ulatory Inform		S.
UN Numb Hazard C 4.3 AIR T ICAO/IAT dditional T oformation: PA SARA (S	ber: Class: RANSPORT (IC/ A Shipping Nam ransport	AO/IATA): ne: Not dang Transport in Sectio nents and Read	perous goods. accordance w n 15. Regu uthorization Ac	ulatory Inform		S.
UN Numb Hazard C 4.3 AIR T ICAO/IAT dditional T oformation: PA SARA (S	per: Class: RANSPORT (IC) A Shipping Nam ransport	AO/IATA): ne: Not dang Transport in Sectio nents and Read ponents (Cher ains 1 and 2 Lig	perous goods. accordance w n 15. Regi uthorization Ac nical Name)	ulatory Inform t of 1986) Lists	ation	
UN Numb Hazard C 4.3 AIR T ICAO/IAT dditional T formation: PA SARA (S AS # NA	Der: Class: RANSPORT (IC) TA Shipping Name ransport uperfund Amendn Hazardous Com TAF1 bromodom	AO/IATA): ne: Not dang Transport in Sectio nents and Read ponents (Cher ains 1 and 2 Lig	perous goods. accordance w n 15. Regi uthorization Ac nical Name)	ulatory Inform t of 1986) Lists S. 302 (EHS)	ation S. 304 RQ	S. 313 (TRI)
UN Numb Hazard C 4.3 AIR T ICAO/IAT dditional T iformation: PA SARA (S AS # NA 26628-22-8	Der: Class: CRANSPORT (IC) CA Shipping Nam ransport uperfund Amendin Hazardous Com TAF1 bromodom Acceptor Mixture	AO/IATA): ne: Not dang Transport in Sectio nents and Reau ponents (Cher pains 1 and 2 Lig	perous goods. accordance w n 15. Regu uthorization Ac nical Name) gand/APC	ulatory Inform t of 1986) Lists S. 302 (EHS) No	ation           S. 304 RQ           No           Yes 1000 LB	<b>S. 313 (TRI)</b> No
UN Numb Hazard C 4.3 AIR T ICAO/IAT dditional T nformation: PA SARA (S AS #	ber: Class: RANSPORT (IC/ A Shipping Nam ransport uperfund Amendn Hazardous Com TAF1 bromodom Acceptor Mixture Sodium azide	AO/IATA): ne: Not dang Transport in Sectio nents and Read ponents (Cher ains 1 and 2 Lig ponents (Cher ains 1 and 2 Lig	perous goods. accordance w n 15. Regu uthorization Ac nical Name) pand/APC	ulatory Inform t of 1986) Lists S. 302 (EHS) No Yes 500 LB	ation           S. 304 RQ           No           Yes 1000 LB	S. 313 (TRI) No Yes



R33DangeR36/37/38IrritatinS22Do notS24/25Avoid of	n
European Community Risk and SaR22HarmfuR33DangeR36/37/38IrritationS22Do notS24/25Avoid of	afety Phrases: ul if swallowed. r of cumulative effects. ng to eyes, respiratory system and skin. r breathe dust.
R22HarmfulR33DangeR36/37/38IrritationS22Do notS24/25Avoid of	ul if swallowed. r of cumulative effects. ng to eyes, respiratory system and skin. r breathe dust.
R22HarmfulR33DangeR36/37/38IrritationS22Do notS24/25Avoid of	ul if swallowed. r of cumulative effects. ng to eyes, respiratory system and skin. r breathe dust.
R33DangeR36/37/38IrritatinS22Do notS24/25Avoid of	r of cumulative effects. ng to eyes, respiratory system and skin. breathe dust.
R36/37/38IrritatinS22Do notS24/25Avoid of	ng to eyes, respiratory system and skin. breathe dust.
S22Do notS24/25Avoid of	breathe dust.
	contact with skin and eves
S26 In case	contact with oran and by co.
	e of contact with eyes, rinse immediately with plenty of water and seek medical
advice	
S36/37/39 Wear s	suitable protective clothing, gloves and eye/face protection.
	SDS was prepared in accordance with Regulation (EC) No.1272/2008 and pean Directive 67/548/EEC as amended.
	Section 16. Other Information
Revision Date: 03/04	4/2014
Additional Information About No da	
This Product:	
Disclaimer: inform or an assu	CLAIMER: This information is believed to be accurate and represents the best mation currently available to us. However, we make no warranty of merchantability by other warranty, express or implied, with respect to such information, and we me no liability resulting from its use. Users should make their own investigations to mine the suitability of the information for their particular purposes.