

### **SAFETY DATA SHEET** BRD4 bromodomain 2 (human recombinant;

Revision: 03/05/2015

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ayman		BKD4 DI OIIIOUOIII	His-tagged)		Revision: 03/05/2015
	accord	ing to Regulation (EC) No. 190	)7/2006 as amended b	y (EC) No. 1272/200	)8
	Section 1. Ide	ntification of the Substar	nce/Mixture and of	the Company/U	ndertaking
.1 Product C Product N Synonym	lame:	11721 BRD4 bromodomain 2 (h Bromodomain containing			
.2 Relevant	identified uses of th	ne substance or mixture a	and uses advised a	igainst:	
Relevan	t identified uses:	For research use only, n	ot for human or vete	erinary use.	
.3 Details of	the Supplier of the	Safety Data Sheet:			
Compar	ny Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	bany		
Web site	e address:	www.caymanchem.com			
Informa	tion:	Cayman Chemical Comp	bany	+1 (73-	4)971-3335
-	cy telephone numb				
Emerge	ncy Contact:	CHEMTREC Within USA			0)424-9300
		CHEMTREC Outside US	SA and Canada:	+1 (70	3)527-3887
		Section 2. Ha	zards Identifi	cation	
GHS Ha Based o GHS Pr No phra GHS Re No phra GHS St Please r 2.3 Adverse	ecaution Phrases: ses apply. esponse Phrases: ses apply. orage and Disposal refer to Section 7 for Human Health M nd Symptoms: M	Storage and Section 13 for aterial may be irritating to t ay be harmful by inhalatior ay cause eye, skin, or resp	r Disposal informatio he mucous membra n, ingestion, or skin a piratory system irritat	on. ines and upper res absorption. tion.	
	Sectio	n 3. Composition	/Information	on Ingredie	nts
	Hazardous Compon REACH Registratior	ents (Chemical Name)/ No.	Concentration	EC No./ EC Index No.	GHS Classification
	BRD4 bromodomain 2 ( His-tagged)	human recombinant;	0.0 -0.1 %	NA NA	No data available.
56-81-5 C MA8050000	Glycerol		0.0 -5.0 %	200-289-5 NA	No data available.
60-24-2 2 KL5600000	2-Mercaptoethanol		0.039 %	200-464-6 NA	Acute Tox.(O) 3: H301 Acute Tox.(D) 2: H310 Skin Corr. 2: H315

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						Skin Sens. 1A: H317 Eye Damage 1: H318 Acute Tox.(I) 3: H331 STOT (RE) 2: H373 Aquatic (A) 1: H400 Aquatic (C) 1: H410		
764 VZ472	7-14-5 25000	Sodium chloride		2.922 %	231-598-3 NA	No data available.		
77 TY290	-86-1 00000	Trizma base		0.606 %	201-064-4 NA	Skin Corr. 2: H315 Eye Damage 2: H319 STOT (SE) 3: H335 H336		
773 ZC01	2-18-5 10000	Water		91.333 -96.433 %	231-791-2 NA	No data available.		
			Section 4. Fi	rst Aid Measu	ires			
4.1	Descrip Measur	otion of First Aid	No data available.					
		e of Inhalation:	Remove to fresh air. If not bre Get immediate medical attent		respiration or giv	ve oxygen by trained personnel.		
	In Case	of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contamin clothing. Get medical attention if symptoms occur. Wash clothing before reuse.					
	In Case	of Eye Contact:	Hold eyelids apart and flush e and tested by medical person		ater for at least 1	5 minutes. Have eyes examined		
	In Case	e of Ingestion:	Wash out mouth with water p unconscious person. Get med medical personnel.	-	-	ive anything by mouth to an ng unless directed to do so by		
			Section 5. Fire	Fighting Mea	sures			
5.1	Media:	e Extinguishing able Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers. Ing A solid water stream may be inefficient.					
5.2	Flamma Hazard	-	dEmits toxic fumes under fire o	conditions.				
	Flash P	't:	No data.					
	-	ive Limits:	LEL: No data.	UEL: No da	ta.			
	-	nition Pt:	No data.					
5.3		inting instructions	s: As in any fire, wear self-conta equivalent), and full protectiv		-			



**Protective Precautions,** 

6.1

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Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,

Section 6. Accidental Release Measures

Avoid breathing vapors and provide adequate ventilation.

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Emergency Procedures:		and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).				
6.2		vironmental Take steps to avoid release into the environment, if safe to do so.				
6.3			r Contain spill and co			
		nment and Cleanir	gTransfer to a chemi	cal waste container for dispo	sal in accordance with lo	cal regulations.
	Up:					
			Section 7	. Handling and St	orage	
7.1	Precau	itions To Be Taken	Avoid breathing dus	t/fume/gas/mist/vapours/spra	ay.	
	in Han	dling:	Avoid prolonged or	epeated exposure.		
7.2			Keep container tight	-		
	in Stor	ing:	Store in accordance	with information listed on the	e product insert.	
		Sec	tion 8. Expos	ure Controls/Perso	nal Protection	
8.1	Exposu	re Parameters:				
CAS	#	Partial Chemical	Name	Britain EH40	France VL	Europe
	NA	BRD4 bromodom recombinant; His-	,	No data.	No data.	No data.
56	-81-5	Glycerol		TWA: 10 mg/m3 () STEL: ()	TWA: 10 mg/m3	No data.
60	-24-2	2-Mercaptoethand	bl	No data.	No data.	No data.
764	7-14-5	Sodium chloride		No data.	No data.	No data.
77	-86-1	Trizma base		No data.	No data.	No data.
773	2-18-5	Water		No data.	No data.	No data.
CAS	#	Partial Chemical	Name	OSHA TWA	ACGIH TWA	Other Limits
	NA	BRD4 bromodom recombinant; His-	,	No data.	No data.	No data.
56	-81-5	Glycerol		PEL: 15 (dust); 5 (resp.) mg/m3	TLV: 10 mg/m3	No data.
60	-24-2	2-Mercaptoethand	bl	No data.	No data.	No data.
764	7-14-5	Sodium chloride		No data.	No data.	No data.
77	-86-1	Trizma base		No data.	No data.	No data.
773	2-18-5	Water		No data.	No data.	No data.
8.2	Exposu	ire Controls:				
8.2.1	Engine	ering Controls	•	ures, local exhaust ventilation	n, or other engineering co	introls to control airborne
	-	ation etc.):		nended exposure limits.		
8.2.2		nal protection equi	-			
	-	otection:	Safety glasses			
		tive Gloves:	Compatible chemica	Il-resistant gloves		
		Protective Clothing	-			
	-	atory Equipment	NIOSH approved re	spirator, as conditions warrar	nt.	
		iy Type):	Do not toko intornali			
	vvork/H	iygienic/Maintenar	Do not take internal	у.		
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	ce Practices:	Facilities storing or utilizing this material should be equipped with an eye	wash and a safety shower.
		Wash thoroughly after handling.	
		No data available.	
		Section 9. Physical and Chemical Properties	
9.1	Information on Basic Ph	nysical and Chemical Properties	
	Physical States:	[]Gas [X]Liquid []Solid	
	Appearance and Odor:	Solution	
	Melting Point:	No data.	
	Boiling Point:	No data.	
	Flash Pt:	No data.	
	Evaporation Rate:	No data.	
	Explosive Limits:	LEL: No data. UEL: No data.	
	Vapor Pressure (vs. Air	or mm No data.	
	Hg):		
	Vapor Density (vs. Air =	<b>= 1):</b> No data.	
	Specific Gravity (Water	<b>= 1):</b> 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 inse	t.
	Polymerization:	Will occur [ ] Will not occur [ X ]	
10.4	Conditions To Avoid:	No data available.	
10.5	Incompatibility - Materia	als strong bases	
	To Avoid:	strong oxidizing agents	
10.6	Hazardous	carbon dioxide	
	Decomposition Or	carbon monoxide	
	Byproducts:		
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Revision: 03/05/2015 **His-tagged**) Section 11. Toxicological Information The toxicological effects of this product have not been thoroughly studied. 11.1 Information on Glycerol - Irritation Data: Eyes (rabbit): 500 mg (24h) mild; Skin (rabbit): 500 mg (24h) mild; **Toxicological Effects:** Chronic Toxicological Glycerol - Investigated as a mutagen, reproductive effector, and tumorigen. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. Effects: See actual entry in RTECS for complete information. Glycerol RTECS Number: MA8050000 NTP? No IARC Monographs? No **OSHA Regulated? No** Carcinogenicity: CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH **OSHA** NA BRD4 bromodomain 2 (human recombinant; His-tagged) n.a. n.a. n.a. n.a. 56-81-5 Glycerol n.a. n.a. n.a. n.a. 60-24-2 2-Mercaptoethanol n.a. n.a. n.a. n.a. 7647-14-5 Sodium chloride n.a. n.a. n.a. n.a. 77-86-1 Trizma base n.a. n.a. n.a. n.a. 7732-18-5 Water n.a. n.a. n.a. n.a. Section 12. Ecological Information 12.1 Avoid release into the environment. Toxicity: Runoff from fire control or dilution water may cause pollution. 12.2 Persistence and No data available. **Degradability:** No data available. 12.3 **Bioaccumulative** Potential: No data available. 12.4 Mobility in Soil: 12.5 Results of PBT and vPvB No data available. assessment: No data available. 12.6 Other adverse effects: Section 13. Disposal Considerations Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. 13.1 Section 14. Transport Information LAND TRANSPORT (US DOT): 14.1 Not dangerous goods. **DOT Proper Shipping Name:** DOT Hazard Class: UN/NA Number: LAND TRANSPORT (European ADR/RID): 14.1 ADR/RID Shipping Name: Not dangerous goods. **UN Number:** Hazard Class: 14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Not dangerous goods. Additional Transport Transport in accordance with local, state, and federal regulations. Information:

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uperfund Amendir	ents and Reauthorization Act	of 1986) Lists				
Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
BRD4 bromodom His-tagged)	ain 2 (human recombinant;	No	No	No		
Glycerol		No	No	No		
2-Mercaptoethan	ol	No	No	No		
Sodium chloride		No	No	No		
Trizma base		No	No	Yes-Cat. N106		
Water		No	No	No		
Hazardous Com	ponents (Chemical Name)	Other US EPA or State Lists				
		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Glycerol			CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No			
2-Mercaptoethanol		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No				
Sodium chloride		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No				
Trizma base		CAA HAP,ODC: HAP; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No				
Water		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No				
ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.					
	Section 16. Ot	her Information	on			
:	03/05/2015					
ormation About	No data available.					
cy 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.					
	BRD4 bromodom   His-tagged)   Glycerol   2-Mercaptoetham   Sodium chloride   Trizma base   Water   Hazardous Com   BRD4 bromodom   His-tagged)   Glycerol   2-Mercaptoetham   Sodium chloride   Trizma base   Vater   Sodium chloride   Trizma base   Water   Vater   Water   Sodium chloride   Trizma base   Water   ormation	Glycerol   2-Mercaptoethanol   Sodium chloride   Trizma base   Water   Hazardous Components (Chemical Name)   BRD4 bromodomain 2 (human recombinant; His-tagged)   Glycerol   2-Mercaptoethanol   Sodium chloride   Trizma base   Water   2-Mercaptoethanol   Sodium chloride   Trizma base   Water   ormation   This SDS was prepared in acc No.1272/2008.   Section 16. Ot   03/05/2015   wo data available.   cy or Disclaimer: DISCLAIMER: This informatior currently available to us. Howe express or implied, with respect use. Users should make their	BRD4 bromodomain 2 (human recombinant; His-tagged) No   Glycerol No   2-Mercaptoethanol No   Sodium chloride No   Trizma base No   Water No   Hazardous Components (Chemical Name) Other US EPA o   BRD4 bromodomain 2 (human recombinant; His-tagged) CAA HAP,ODC: PROP.65: No   Glycerol CAA HAP,ODC: Inventory; CA P   2-Mercaptoethanol CAA HAP,ODC: Inventory; CA P   Sodium chloride CAA HAP,ODC: Inventory; CA P   Sodium chloride CAA HAP,ODC: Inventory; CA P   Trizma base CAA HAP,ODC: Inventory; CA P   Water CAA HAP,ODC: Inventory; CA P   Water CAA HAP,ODC: Inventory; CA P   ormation This SDS was prepared in accordance with 29 CFF No.1272/2008.   Section 16. Other Information (03/05/2015) O3/05/2015   premation About No data available.   cy or Disclaimer: DISCLAIMER: This information is believed to be ac currently available to us. However, we make no wa express or implied, with respect to such informatior use. Users should make their own investigations to	BRD4 bromodomain 2 (human recombinant; His-tagged) No No   Glycerol No No No   2-Mercaptoethanol No No No   Sodium chloride No No No   Trizma base No No No   Water No No No   Hazardous Components (Chemical Name) Other US EPA or State Lists   BRD4 bromodomain 2 (human recombinant; His-tagged) CAA HAP,ODC: No; CWA NPDES Inventory; CA PROP.65: No   Glycerol CAA HAP,ODC: No; CWA NPDES Inventory; CA PROP.65: No   2-Mercaptoethanol CAA HAP,ODC: No; CWA NPDES Inventory; CA PROP.65: No   Sodium chloride CAA HAP,ODC: No; CWA NPDES Inventory; CA PROP.65: No   Trizma base CAA HAP,ODC: No; CWA NPDES Inventory; CA PROP.65: No   Trizma base CAA HAP,ODC: No; CWA NPDES Inventory; CA PROP.65: No   Water CAA HAP,ODC: No; CWA NPDES Inventory; CA PROP.65: No   Ormation This SDS was prepared in accordance with 29 CFR 1910.1200 and R No.1277/2008.   Section 16. Other Information 03/05/2015   ormation About No data available.   cy or Disclaimer: DISCLAIMER: This information is believed to be accurate and represe currently available to us. Howe		