

SAFETY DATA SHEET BRD4 bromodomain 1 (human recombinant; His-tagged)

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	MIMICAL		ŀ	lis-tagged)						
		acc	cording to Regulation (EC) No. 190)7/2006 as amended b	oy (EC) No. 1272/200)8				
		Section 1.	Identification of the Substar	nce/Mixture and of	the Company/U	ndertaking				
1.1	Product	Code:	11720							
	Product	Name:	BRD4 bromodomain 1 (h	uman recombinant;	; His-tagged)					
	Synony	ms:	Bromodomain containing	protein 4; HUNK1;	MCAP;					
1.2	Relevan	t identified uses o	of the substance or mixture a	and uses advised a	against:					
	Releva	ant identified uses	: For research use only, no	ot for human or vete	erinary use.					
1.3	Details of the Supplier of the Safety Data Sheet:									
	Compa	any Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	bany						
	Web s	ite address:	www.caymanchem.com							
	Inform	ation:	Cayman Chemical Comp	bany	+1 (73	4)971-3335				
1.4	Emerge	ncy telephone nu	mber:							
	-	ency Contact:	CHEMTREC Within USA CHEMTREC Outside US		-	0)424-9300 3)527-3887				
			Section 2. Ha	zards Identifi	cation					
2.1	Classific	cation of the Subs	stance or Mixture:							
2.1.1	Classifi	cation according	to Regulation (EC) No 1272/2	2008 [CLP]:						
2.2	Label El	-	• • • •							
2.2.1	Labelin	g according to Re	gulation (EC) No 1272/2008	[CLP]:						
	GHS S	ignal Word:	None							
		azard Phrases:	None							
	Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.									
		Precaution Phrase	-			<u><u></u></u>				
		No phrases apply.								
	GHS Response Phrases:									
	No phrases apply.									
	GHS Storage and Disposal Phrases:									
			for Storage and Section 13 for	Disposal informatio	on.					
2.3		e Human Health	Material may be irritating to t	-		spiratory tract.				
	Effects	and Symptoms:								
			May cause eye, skin, or resp	iratory system irritat	tion.					
			To the best of our knowledge	e, the toxicological p	properties have not	been thoroughly investigated.				
		Sect	tion 3. Composition	/Information	on Ingredie	nts				
CAS # RTEC		Hazardous Comp REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification				
NA NA		BRD4 bromodomair His-tagged)	1 (human recombinant;	0.0 -0.1 %	NA NA	No data available.				
-56 MA805	81-5 50000	Glycerol		0.0 -5.0 %	200-289-5 NA	No data available.				
60-: KL560	24-2 0000	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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		1			1	1			
						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			
7647 VZ472	'-14-5 5000	Sodium chloride		2.922 %	231-598-3 NA	No data available.			
77-	86-1	Trizma base		0.606 %	201-064-4	Skin Corr. 2: H315			
TY290	0000				NA	Eye Damage 2: H319			
						STOT (SE) 3: H335 H336			
7732 ZC011	2-18-5	Water		91.333 -96.433 %	231-791-2	No data available.			
20011	0000				NA				
			Section 4. Fi	rst Aid Measu	res				
4.1	-	tion of First Aid	No data available.						
	Measur	es:							
	In Case	of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel.						
			Get immediate medical attention.						
	In Case	of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated						
			clothing. Get medical attention	n if symptoms occur.	Wash clothing b	efore 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 person	nel.					
	In Case	of Ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an						
		J	unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by						
			medical personnel.			<u>,</u>			
			Section 5. Fire	Fighting Mea	sures				
ـــــــــــــــــــــــــــــــــــــ	Suitable	e Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.						
	Media:	J J	Use water spray to cool fire-exposed containers.						
			A solid water stream may be inefficient.						
	Media:		A solid water stream may be menicient.						
5.2		able Properties an	dEmits toxic fumes under fire of	conditions					
0.2	Hazard	S:							
	Flash P	t:	No data.						
	Explosi	ve Limits:	LEL: No data.	UEL: No da	ta.				
	Autoigr	nition Pt:	No data.						
5.3	Fire Fig	hting Instructions	s: As in any fire, wear self-conta equivalent), and full protective						

Multi-region format



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Section 6. Accidental Release Measures 6.1 **Protective Precautions,** Avoid breathing vapors and provide adequate ventilation. Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves). **Emergency Procedures:** 6.2 Environmental Take steps to avoid release into the environment, if safe to do so. **Precautions:** 6.3 Methods and Material For Contain spill and collect, as appropriate. Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations. Up: Section 7. Handling and Storage 7.1 Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray. in Handling: Avoid prolonged or repeated exposure. Precautions To Be Taken Keep container tightly closed. 7.2 Store in accordance with information listed on the product insert. in Storing: Section 8. Exposure Controls/Personal Protection 8.1 **Exposure Parameters:** CAS # Partial Chemical Name **Britain EH40** France VL Europe No data. No data. No data. NA BRD4 bromodomain 1 (human recombinant; His-tagged) 56-81-5 Glycerol TWA: 10 mg/m3 () TWA: 10 mg/m3 No data. STEL: () 60-24-2 2-Mercaptoethanol No data. No data. No data. 7647-14-5 Sodium chloride No data. No data. No data. 77-86-1 No data. No data. No data. Trizma base 7732-18-5 No data. No data. Water No data. **ACGIH TWA** Other Limits CAS # **Partial Chemical Name OSHA TWA** No data. NA BRD4 bromodomain 1 (human No data. No data. recombinant; His-tagged) 56-81-5 PEL: 15 (dust); 5 (resp.) TLV: 10 mg/m3 No data. Glycerol mg/m3 60-24-2 2-Mercaptoethanol No data. No data. No data. 7647-14-5 Sodium chloride No data. No data. No data. 77-86-1 Trizma base No data. No data. No data. 7732-18-5 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 control airborne levels below recommended exposure limits.

8.2.2 Personal protection equipment:

Eye Protection: Safety glasses

Protective Gloves: Compatible chemical-resistant gloves

Other Protective Clothing: Lab coat

Respiratory Equipment NIOSH approved respirator, as conditions warrant.

(Specify Type):

Work/Hygienic/Maintenan Do not take internally.

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	ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety show	ver.
		Wash thoroughly after handling.	
		No data available.	
		Section 9. Physical and Chemical Properties	
9.1	Information on Basic Pl	hysical 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. Ai	ir or mm No data.	
	Hg):		
	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 - Materi	ials strong bases	
	To Avoid:	strong oxidizing agents	
10.6	Hazardous	carbon dioxide	
	Decomposition Or	carbon monoxide	
	Byproducts:		



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			Sectio	n 11. Toxicologica	I Informa	ation			
11.1 Information on			The toxicological effects of this product have not been thoroughly studied.						
	Toxicological Effects:		Glycerol - Irritation Data: Eyes (rabbit): 500 mg (24h) mild; Skin (rabbit): 500 mg (24h) mild;						
	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:								
				ntry in RTECS for complete	information.				
0			Glycerol RTECS Number: MA8050000						
	nogenicity	1	NTP? No IARC Monographs? No OSHA Regulated? No						
CAS		Hazardous Com		-	NTP	IARC	ACGIH	OSHA	
	NA		ain 1 (human	recombinant; His-tagged)	n.a.	n.a.	n.a.	n.a.	
	-81-5	Glycerol			n.a.	n.a.	n.a.	n.a.	
60	-24-2	2-Mercaptoethan	ol		n.a.	n.a.	n.a.	n.a.	
764	7-14-5	Sodium chloride			n.a.	n.a.	n.a.	n.a.	
	-86-1	Trizma base			n.a.	n.a.	n.a.	n.a.	
773	2-18-5	Water			n.a.	n.a.	n.a.	n.a.	
			Secti	on 12. Ecological	Informat	ion			
12.1	Toxicity	:		e into the environment.					
			Runoff from fire control or dilution water may cause pollution.						
12.2	Persiste	nce and	No data available.						
	Degrada	ıbility:							
12.3	Bioaccu	mulative	No data available.						
	Potentia	ıl:							
12.4	Mobility	in Soil:	No data available.						
12.5	Results	of PBT and vPvB	No data available.						
	assessn	nent:							
12.6	12.6 Other adverse effects:		No data available.						
			Sectio	n 13. Disposal Co	nsiderati	ions			
13.1	Waste D	isposal Method:	Dispose in a	ccordance with local, state, a	and federal re	egulations.			
			Sect	ion 14. Transport	Informat	ion			
14.1	LAND T	RANSPORT (US I	DOT):						
D	OT Prope	r Shipping Name	Not dan	gerous goods.					
D	OT Hazar	d Class:							
U	N/NA Nun	nber:							
14.1	LAND T	RANSPORT (Euro	opean ADR/R	lD):					
		hipping Name:	Not dan	gerous goods.					
-	N Numbe								
	azard Cla								
14.3		ANSPORT (ICAO/I	-						
		Shipping Name:		gerous goods.					
	tional Trai	nsport	I ransport in	accordance with local, state	, and federal	regulations.			
Infori	mation:								



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		Section 15. Regu	latory Inform	ation			
EPA SARA (S	uperfund Amendn	ents and Reauthorization Act	of 1986) Lists				
CAS #		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
NA	BRD4 bromodomain 1 (human recombinant; His-tagged)		No	No	No		
56-81-5	Glycerol		No	No	No		
60-24-2	2-Mercaptoethan	ol	No	No	No		
7647-14-5	Sodium chloride		No	No	No		
77-86-1	Trizma base		No	No	Yes-Cat. N106		
7732-18-5	Water		No	No	No		
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA o	r State Lists	·		
NA		aain 1 (human recombinant;	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
56-81-5	Glycerol		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No				
60-24-2	2-Mercaptoethan	ol	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No				
7647-14-5	Sodium chloride		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No				
77-86-1	Trizma base		CAA HAP,ODC: HAP; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No				
7732-18-5	Water		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No				
Regulatory Inf Statement:	formation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.					
		Section 16. Ot	her Informati	on			
Revision Date	:	03/05/2015					
Additional Info This Product:	ormation 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.					