

NA

7447-14-5

Potassium Chloride

SAFETY DATA SHEET HDAC1 (human recombinant)

	<u> </u>		HDAC1 (h	uman recomb	oinant)	Revision: 03/04/2015			
cay	man				S	Supersedes Revision: 02/28/2011			
		accord	ling to Regulation (EC) No. 190	7/2006 as amended by	y (EC) No. 1272/200	8			
		Section 1. Ide	entification of the Substar	nce/Mixture and of	the Company/U	ndertaking			
1.1	Product	Code:	10009231						
	Product	Name:	HDAC1 (human recombi	nant)					
	Synonyr	ns:	Histone Deacetylase 1;						
1.2	Relevant	t identified uses of t	he substance or mixture a	and uses advised a	gainst:				
	Releva	nt identified uses:	For research use only, no	ot for human or veter	rinary use.				
1.3	Details o	of the Supplier of the	Safety Data Sheet:						
	Compa	iny Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	pany					
	Web si	te address:	www.caymanchem.com						
	Inform	ation:	Cayman Chemical Comp	pany	+1 (734	4)971-3335			
1.4	Emerger	ncy telephone numb	er:						
	Emerg	ency Contact:	CHEMTREC Within USA	and Canada:	+1 (80	0)424-9300			
			CHEMTREC Outside US	A and Canada:	+1 (70	3)527-3887			
			Section 2. Ha	zards Identific	cation				
2.1	Classific	ation of the Substar	nce or Mixture:						
2.1.1	Classifi	cation according to	Regulation (EC) No 1272/2	2008 [CLP]:					
2.2	Label Elements:								
2.2.1	Labeling according to Regulation (EC) No 1272/2008 [CLP]:								
	GHS S	ignal Word:	None						
	GHS Hazard Phrases:								
	Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.								
	GHS P	recaution Phrases:							
	No phrases apply.								
	GHS Response Phrases:								
	-	ases apply.							
		torage and Disposal							
			Storage and Section 13 for	•					
2.3		Adverse Human HealthMaterial may be irritating to the mucous membranes and upper respiratory tract.Effects and Symptoms:May be harmful by inhalation, ingestion, or skin absorption.							
	Effects		lay cause eye, skin, or resp	-	-				
						been thoroughly investigated.			
			n 3. Composition		-				
CAS	#/		nents (Chemical Name)/	Concentration	EC No./	GHS Classification			
RTEC		REACH Registration	· · ·		EC Index No.				
NA NA		HDAC1 (human recomb	binant)	0.0 -0.1 %	NA NA	No data available.			
	-81-5 950000	Glycerol		0.0 -20.0 %	200-289-5 NA	No data available.			
NA		Flag Peptide		0.008 %	NA	No data available.			
ΝΔ				1					

NA NA

0.017 %

No data available.



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	CHEMICAL								
NA					NA				
77 TY29	-86-1 00000	Trizma base		0.484 %	201-064-4 NA	Skin Corr. 2: H315 Eye Damage 2: H319 STOT (SE) 3: H335 H336			
	2-18-5 10000	Water		79.391 -99.491 %	5 231-791-2 NA	No data available.			
		1		ł	- 1	+			
r									
			Section 4	. First Aid Meas	sures				
4.1	-	otion of First Aid	No data available.						
	Measur								
	In Case	of Inhalation:			al respiration or g	give oxygen by trained personnel.			
	In Case of Skin Contact:			Get immediate medical attention. Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated					
			-						
	In Case	of Eye Contact:	clothing. Get medical attention if symptoms occur. Wash clothing before reuse. 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 Lye contact.							
	In Case	of Ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an						
		5	unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by						
			medical personnel.						
			Section 5.	Fire Fighting Me	asures				
5.1	Suitabl	e Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.						
	Media:		Use water spray to cool fire-exposed containers.						
	Unsuita	Unsuitable Extinguishing A solid water stream may be inefficient.							
	Media:								
5.2	Flamma	Flammable Properties and No data available.							
	Hazard	s:							
	Flash P	't:	No data.						
	•	ive Limits:	LEL: No data.	UEL: No o	data.				
	-	nition Pt:	No data.						
5.3	Fire Fig	hting Instructions	•	If-contained breathing app otective gear to prevent c	•	-demand (NIOSH approved or and eyes.			
			Section 6. Acc	idental Release	Measures				
6.1	Protect	ive Precautions,	Avoid breathing vapor	rs and provide adequate v	ventilation.				
	Protect	ive Equipment an	d As conditions warrant	, wear a NIOSH approved	d self-contained b	preathing apparatus, or respirator,			
	Emerge	ency Procedures:	and appropriate perso	onal protection (rubber bo	ots, safety goggle	es, and heavy rubber gloves).			
6.2	Enviror	nmental	Take steps to avoid release into the environment, if safe to do so.						
	Precau	tions:							
6.3			r Contain spill and colle						
		nment and Cleanir	igTransfer to a chemica	I waste container for disp	osal in accordan	ce with local regulations.			
	Up:								



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Section 7. Handling and Storage

- 7.1
 Precautions To Be Taken
 Avoid breathing dust/fume/gas/mist/vapours/spray.

 in Handling:
 Avoid prolonged or repeated exposure.
- **7.2 Precautions To Be Taken** Keep container tightly closed.

Store in accordance with information listed on the product insert.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

in Storing:

CAS #	Partial Chemical Name	Britain EH40	France VL	Europe
NA	HDAC1 (human recombinant)	No data.	No data.	No data.
56-81-5 Glycerol		TWA: 10 mg/m3 () STEL: ()	TWA: 10 mg/m3	No data.
NA	Flag Peptide	No data.	No data.	No data.
7447-14-5	Potassium 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.
CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
NA	HDAC1 (human recombinant)	No data.	No data.	No data.
56-81-5	Glycerol	PEL: 15 (dust); 5 (resp.) mg/m3	TLV: 10 mg/m3	No data.
NA	Flag Peptide	No data.	No data.	No data.
7447-14-5 Potassium Chloride		No data.	No data.	No data.
7447-14-5	Potassium Chloride	no uala.		no data.
7447-14-5 77-86-1	Potassium Chloride Trizma base	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.

ce Practices:Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety
shower.

Wash thoroughly after handling.

No data available.



.1	Informat			n 9. Physical and Chemical Propertie					
. '		-	Sicai ai	[]Gas [X]Liqu		4			
	Physical States: Appearance and Odor:			Solution		u l			
				No data.					
	Melting Point: 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 Hg): Vapor Density (vs. Air = 1):								
			No data.						
	Specific Gravity (Water = 1):		-	No data.					
	Solubility in Water:		.,.	No data.					
	Autoign	-		No data.					
9.2	-								
<i></i>	Other Information Percent Volatile:			No data					
	reicent	volatile:		No data.					
			S	Section 10. Stal	cility and	Reactivi	ty		
0.1	Reactivi	ity:	No da	ta available.					
0.2	Stability	<i>r</i> :	Unsta	Unstable [] Stable [X]					
0.3	Stability Note(s): Stabl		Stable	Stable if stored in accordance with information listed on the product insert.					
	Polymerization: Will o			Will occur [] Will not occur [X]					
0.4	Conditions To Avoid: No da			No data available.					
0.5	Incompa	atibility - Material	s strong	J bases					
	To Avoid: stron		strong	strong oxidizing agents					
0.6	Hazardous carbo		carbo	carbon dioxide					
	Decomposition Or carbo			carbon monoxide					
	Byprodu	ucts:							
			Se	ection 11. Toxic		Informat	ion		
1.1				The toxicological effects of this product have not been thoroughly studied.					
				Glycerol - Irritation Data: Eyes (rabbit): 500 mg (24h) mild; Skin (rabbit): 500 mg (24h) mild;					
	0		-	Glycerol - Investigated as a mutagen, reproductive effector, and tumorigen.					
			Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.						
	-			See actual entry in RTECS for complete information.					
				Glycerol RTECS Number: MA8050000					
			NTP? No IARC Monographs? No OSHA Regulated? No						
CAS # Hazardous Compon		ponent	ts (Chemical Name)		NTP	IARC	ACGIH	OSHA	
	NA	HDAC1 (human	recomb	inant)		n.a.	n.a.	n.a.	n.a.
56	-81-5	Glycerol				n.a.	n.a.	n.a.	n.a.
NA		Flag Peptide				n.a.	n.a.	n.a.	n.a.
744	7-14-5	Potassium Chlor	ide			n.a.	n.a.	n.a.	n.a.
	-86-1	Trizma base				n.a.	n.a.	n.a.	n.a.
	2-18-5	Water					n.a.		



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		Section 12. Ecolo	ogical Informa	tion			
12.1 Toxicit							
		Runoff from fire control or dilut	on water may cause p	pollution.			
12.2 Persis	tence and	No data available.					
Degrad	dability:						
	cumulative	No data available.					
Potent							
	ty in Soil:	No data available.					
		of PBT and vPvB No data available.					
	ment: Idverse effects: No data available.						
		Section 13. Dispo	sal Considerat	tions			
13.1 Waste	Disposal Method:	Dispose in accordance with loc	al, state, and federal	regulations.			
		Section 14. Trar	nsport Informa	tion			
14.1 LAND	TRANSPORT (US	DOT):					
DOT Prop	per Shipping Name	Not dangerous goods.					
DOT Haza	ard Class:						
UN/NA Nu	umber:						
14.1 LAND	TRANSPORT (Eur	opean ADR/RID):					
ADR/RID	Shipping Name:	Not dangerous goods.					
UN Numb	er:						
Hazard C	lass:						
14.3 AIR TH	RANSPORT (ICAO/	IATA):					
ICAO/IAT	A Shipping Name:	Not dangerous goods.					
Additional Tr	ansport	Transport in accordance with	ocal, state, and federa	al regulations.			
Information:							
		Section 15. Regu	llatory Informa	tion			
EPA SARA (S	Superfund Amendm	nents and Reauthorization Act	of 1986) Lists				
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
NA	HDAC1 (human ı	recombinant)	No	No	No		
56-81-5	Glycerol		No	No	No		
NA	Flag Peptide		No	No	No		
7447-14-5	Potassium Chlori	de	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 or State Lists				
NA	HDAC1 (human ı	ecombinant)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
56-81-5	Glycerol		CAA HAP,ODC: N Inventory; CA PR	lo; CWA NPDES: No OP.65: No	; TSCA: Yes -		
NA	Flag Peptide		CAA HAP,ODC: N PROP.65: No	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
7447-14-5	Potassium Chlori	de	CAA HAP,ODC: N	lo; CWA NPDES: No	; TSCA: No; CA		
					Multi-region forma		



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		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 Info	ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)				
Statement:		No.1272/2008.				
		Section 16. Other Information				
Revision Date:		03/04/2015				
Additional Information About		No data available.				
This Product:						
Company Policy or Disclaimer:		DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.				