

# **SAFETY DATA SHEET** Hsp10 (human recombinant)

Revision: 11/04/2017

		accord	ing to Regulation (EC) No. 190	7/2006 as amended by	r (EC) No. 1272/200	8
		Section 1. Ide	entification of the Substar	nce/Mixture and of t	the Company/Ur	ndertaking
1.1	Product Product Synony	t Name: ms:	23405 Hsp10 (human recombin CPN10; Early-pregnancy	Factor; Heat shock		
1.2			he substance or mixture a		-	
		ant identified uses:	For research use only, no	of for numan or veter	inary use.	
1.3	Comp	of the Supplier of the any Name: ite address:	Safety Data Sheet: Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 www.caymanchem.com	bany		
	Inform	nation:	Cayman Chemical Comp	pany	+1 (734	4)971-3335
1.4	-	ncy telephone numb gency Contact:	er: CHEMTREC Within USA CHEMTREC Outside US		-	0)424-9300 3)527-3887
			Section 2. Ha	zards Identific	cation	
2.1 2.2 2.3	Label E GHS S GHS I Based GHS I No ph GHS S Please Advers	Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposal e refer to Section 7 for the Human Health Ma and Symptoms: Ma T	None None ently available data this sub Phrases: Storage and Section 13 for laterial may be irritating to t lay be harmful by inhalation lay cause eye, skin, or resp	stance or mixture is r Disposal informatior he mucous membrar , ingestion, or skin al iratory system irritati e, the toxicological pr	not classifiable ac nes and upper res bsorption. on. operties have not	piratory tract.
CAS		Hazardous Compon	ents (Chemical Name)/	Concentration	EC No./	GHS Classification
RTE NA NA	CS #	REACH Registration		~ 1.0 %	EC Index No.	No data available.
736	65-45-9 09000	HEPES, free acid		22.25 %	230-907-9 NA	No data available.
VZ47	17-14-5 25000	Sodium chloride		66.75 %	231-598-3 NA	No data available.
	6-81-5 050000	Glycerol		10.0 %	200-289-5 NA	No data available.

Multi-region format



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			Section 4. First	Aid Measures	
4.1	Description of First Aid				
	Measures:				
	In Case of Inhalation:		ve to fresh air. If not breath mediate medical attention.	ing, give artificial respiration or give oxygen by tra	ined personnel.
	In Case of Skin Contact:			and plenty of water for at least 15 minutes. Remo symptoms occur. Wash clothing before reuse.	ve contaminated
	In Case of Eye Contact:	Hold e	-	with plenty of water for at least 15 minutes. Have	eyes examined
	In Case of Ingestion:	Wash uncon:	out mouth with water provi	ded person is conscious. Never give anything by r I attention. Do NOT induce vomiting unless directe	
		S	Section 5. Fire Fi	ghting Measures	
5.1	Suitable Extinguishing			on dioxide, water, or dry chemical spray.	
	Media:		ater spray to cool fire-expo		
	Unsuitable Extinguishing Media:				
	Flammable Properties an	<b>d</b> No do			
	Hazards:	uno ua			
		No da	ta available.		
	Flash Pt:	No da			
	Explosive Limits:		No data.	UEL: No data.	
	Autoignition Pt:	No da			
	-			d breathing apparatus pressure-demand (NIOSH	approved or
0.0			-	ear to prevent contact with skin and eyes.	
		Sect	ion 6. Accidental	Release Measures	
6.1	Protective Precautions,	Avoid	raising and breathing dust	, and provide adequate ventilation.	
	Protective Equipment and	d As co	nditions warrant, wear a N	IOSH approved self-contained breathing apparatu	s, or respirator,
	Emergency Procedures:	and a	ppropriate personal protec	tion (rubber boots, safety goggles, and heavy rubb	oer gloves).
6.2	Environmental	Take	steps to avoid release into	the environment, if safe to do so.	
	Precautions:				
	Methods and Material For			-	
	Containment and Cleanin Up:	<b>ig</b> Trans	fer to a chemical waste co	ntainer for disposal in accordance with local regula	ations.
			Section 7. Handl	ing and Storage	
7.1	Precautions To Be Taken			· ·	
	in Handling:		prolonged or repeated exp		
	Precautions To Be Taken				
	in Storing:			tion listed on the product insert.	
	Sec	tion 8	B. Exposure Cont	rols/Personal Protection	
8.1 I	Exposure Parameters:				
CAS#	-		Jurisdiction	Recommended Exposure Limits	Notations
56-81-	5 Glycerol		ACGIH TLV	TLV: 10 mg/m3	
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	-5 Glycerol nued)		France VL	TWA: 10 mg/m3				
100110			OSHA PELs	PEL: 15 (dust); 5 (resp.) mg/m3				
			Britain EH40	TWA: 10 mg/m3 ()				
				STEL: ()				
8.2	Exposure Controls:							
8.2.1	Engineering Controls	Use p	process enclosures, local e	xhaust ventilation, or other engineering controls to	control airborne			
	(Ventilation etc.):	levels	below recommended exp	osure limits.				
8.2.2	Personal protection equi	pment:	:					
	Eye Protection:	Safety	y glasses					
	Protective Gloves:	Comp	atible chemical-resistant g	loves				
	Other Protective Clothing	:Lab c	oat					
	Respiratory Equipment	NIOS	H approved respirator, as	conditions warrant.				
	(Specify Type):							
	Work/Hygienic/Maintenar	Do no	ot take internally.					
				material should be equipped with an eyewash and	a safety shower.			
		Wash	thoroughly after handling.		·			
		No da	ata available.					
	S	ectio	n 9 Physical an	d Chemical Properties				
9.1	Section 9. Physical and Chemical Properties							
5.1	Physical States:	Sical al	[]Gas [X]Liquid	[ ] Solid				
	-							
Appearance and Odor:			50 mM HEPES pH 8, 150 mM sodium chloride, 10 % glycerol 8.0					
	pH: Melting Point:		o.o No data.					
	Boiling Point:		No data.					
	Flash Pt:		No data.					
			No data.					
	Evaporation Rate: Flammability (solid, gas):		No data available.					
		i	LEL: No data.	UEL: No data.				
	Explosive Limits:			UEL. NO GAIA.				
	Vapor Pressure (vs. Air o	r mm	No data.					
	Hg):	<b>.</b>	No data.					
	Vapor Density (vs. Air = 1):							
	Specific Gravity (Water =	1):	No data.					
	Solubility in Water:		No data.					
Octanol/Water Partition			No data.					
	Coefficient:		NI 1.					
	Autoignition Pt:		No data. No data.					
	Decomposition Temperature:		No data. No data.					
	Viscosity:		No data.					
9.2	Other Information							
	Percent Volatile:		No data.					



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			Section 10. Stability and	l Reacti	vity				
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	Conditio	ons To Avoid:	No data available.						
10.5	Incompa	atibility - Materials	s No data available.						
	To Avoi	d:							
10.6	Hazardo	ous	No data available.						
	-	osition or							
	Byprodu	ucts:							
			Section 11. Toxicological	Informa	ation				
11.1	Informa	tion on	The toxicological effects of this product ha	ave not bee	n thoroughly st	udied.			
	Toxicolo	ogical Effects:							
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
	NA	Hsp10 (human re	ecombinant)	n.a.	n.a.	n.a.	n.a.		
736	65-45-9	HEPES, free acid	1	n.a.	n.a.	n.a.	n.a.		
764	17-14-5	Sodium chloride		n.a.	n.a.	n.a.	n.a.		
56	6-81-5	Glycerol		n.a.	n.a.	n.a.	n.a.		
		•	Section 12. Ecological I	nformat	tion	•			
12.1	Toxicity	<u>.</u>	Avoid release into the environment.						
	,		Runoff from fire control or dilution water n	nay cause p	ollution.				
12.2	Persiste	ence and	No data available.						
	Degrada	ability:							
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	Other ac	dverse effects:	No data available.						
			Section 13. Disposal Cor	nsiderat	ions				
13.1	Waste D	isposal Method:	Dispose in accordance with local, state, a	ind federal r	egulations.				
			Section 14. Transport I	nformat	tion				
14.1	LAND T	RANSPORT (US	DOT):						
c	OT Prope	r Shipping Name	Not dangerous goods.						
C	OT Hazar	d Class:							
u	JN/NA Nur	nber:							
14.1	LAND T	RANSPORT (Eur	opean ADR/RID):						
A	DR/RID S	hipping Name:	Not dangerous goods.						
u	JN Numbe	r:							
н	lazard Cla	SS:							
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						ľ	Multi-region format		



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14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:

Not dangerous goods.

Additional Transport Information:

### Section 15. Regulatory Information

Transport in accordance with local, state, and federal regulations.

CAS #	CAS # Hazardous Components (Chemical Name)		S. 304 RQ	S. 313 (TRI)		
NA	Hsp10 (human recombinant)	No	No	No		
7365-45-9	HEPES, free acid	No	No	No		
7647-14-5	Sodium chloride	No	No	No		
56-81-5	Glycerol	No	No	No		
CAS #	Hazardous Components (Chemical Name)	Other US EPA o	r State Lists			
NA Hsp10 (human recombinant)		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: 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				
56-81-5 Glycerol		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No				

Section 16. Other Information

Revision Date:

This Product:

Additional Information About No data available.

11/04/2017

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.