

SAFETY DATA SHEET

eIF4E (human recombinant; GST-tagged)

Revision: 10/02/2018 Supersedes Revision: 02/27/2015

	according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830 and US OSHA HCS 2015							
		Section 1.	Identification of the Substa	nce/Mixture and of t	he Company/U	ndertaking		
1.1	Product Code:15564Product Name:eIF4E (human recombinant; GST-tagged)Synonyms:eIF-4F 25 kDa subunit; Eukaryotic Translation Initiation Factor 4E; mRNA Cap-binding Protein							
	Synony			-		4E; mRNA Cap-binding Protein;		
1.2			of the substance or mixture					
	Relevant identified uses: For research use only, not for human or veterinary use.							
1.3			the Safety Data Sheet:					
	Company Name: Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108							
	Web s	site address:	www.caymanchem.com					
	Inform	nation:	Cayman Chemical Com	pany	+1 (73-	4)971-3335		
1.4	Emerge	ency telephone nu	imber:					
	Emerg	gency Contact:	CHEMTREC Within US		-	0)424-9300		
			CHEMTREC Outside US	SA and Canada:	+1 (70	3)527-3887		
			Section 2. Ha	zards Identific	cation			
2.1	Classifi	cation of the Sub	stance or Mixture:					
2.2	Label E	lements:						
	GHS S	Signal Word:	None					
	GHS	Hazard Phrases:						
	Based	d on evaluation of o	currently available data this sub	ostance or mixture is r	not classifiable ac	cording to GHS.		
		Precaution Phras	es:					
	-	rases apply.						
		Response Phrase	s:					
	•	rases apply.						
		Storage and Disp	osal Phrases: 7 for Storage and Section 13 fo	r Dianagal information				
2.3		e Human Health	Material may be irritating to	•		piratory tract		
2.5		and Symptoms:	May be harmful by inhalation		••			
			May cause eye, skin, or resp	-	-			
			To the best of our knowledg	e, the toxicological pr	operties have not	been thoroughly investigated.		
		Sec	tion 3. Composition	n/Information of	on Ingredie	nts		
CAS RTE	5 # / CS #	Hazardous Com REACH Registra	ponents (Chemical Name)/ ation No.	Concentration	EC No./ EC Index No.	GHS Classification		
NA NA		eIF4E (human reco	mbinant; GST-tagged)	0.0 -0.1 %	NA NA	No data available.		
	3-81-5 050000	Glycerol 01-2119471987-18		0.0 -5.0 %	200-289-5 NA	No GHS classifications apply.		
	4-55-8 950000	Sodium hydrogen o 01-2119457606-32		0.42 %	205-633-8 NA	No GHS classifications apply.		
	17-14-5 25000	Sodium chloride 01-2119485491-33		0.584 %	231-598-3 NA	No GHS classifications apply.		
	32-18-5 10000	Water na		93.896 -98.996 %	231-791-2 NA	No GHS classifications apply.		
						• Multi-region format		



SAFETY DATA SHEET eIF4E (human recombinant; GST-tagged)

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Revision: 10/02/2018 Supersedes Revision: 02/27/2015

		Section 4. First	Aid Measures				
4.1	1 Description of First Aid						
	Measures:						
	In Case of Inhalation:	Remove to fresh air. If not breath Get immediate medical attention	ning, 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.	ove contaminated			
In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Har and tested by medical personnel.							
In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by m unconscious person. Get medical attention. Do NOT induce vomiting unless directed medical personnel.							
		Section 5. Fire F	ighting Measures				
5.1	1Suitable ExtinguishingUse alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.Media:Use water spray to cool fire-exposed containers.						
	Unsuitable Extinguishing Media:	g A solid water stream may be ine	fficient.				
5.2							
		No data available.					
	Flash Pt:	No data.					
	Explosive Limits:	LEL: No data.	UEL: No data.				
	Autoignition Pt:	No data.					
5.3	-						
	equivalent), and full protective gear to prevent contact with skin and eyes.						
	Section 6. Accidental Release Measures						
6.1	Protective Precautions,	Avoid breathing vapors and pro-	•				
	Protective Equipment an		IIOSH approved self-contained breathing apparatu				
	Emergency Procedures:	and appropriate personal protect	ction (rubber boots, safety goggles, and heavy rub	ber gloves).			
6.2	Environmental	Take steps to avoid release into	the environment, if safe to do so.				
	Precautions:						
6.3	B Methods and Material For Contain spill and collect, as appropriate. Containment and CleaningTransfer to a chemical waste container for disposal in accordance with local regulations.						
		ng fransier to a chemical waste co	intainer for disposar in accordance with local regul	alions.			
	Up:						
		Section 7. Hand	<u> </u>				
7.1		Avoid breathing dust/fume/gas/n					
	in Handling: Avoid prolonged or repeated exposure.						
7.2							
in Storing: Store in accordance with information listed on the product insert.							
Section 8. Exposure Controls/Personal Protection							
8.1 Exposure Parameters:							
CAS	# Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations			
56-81	-5 Glycerol	ACGIH TLV	TLV: 10 mg/m3				
1							

Multi-region format



SAFETY DATA SHEET eIF4E (human recombinant; GST-tagged)

Revision: 10/02/2018

	HEMICAL			Supersedes Revis	ion: 02/27/2015			
56-81-5 Glycerol			France VL	TWA: 10 mg/m3				
(continued)								
			OSHA PELs Britain EH40	PEL: 15 (dust); 5 (resp.) mg/m3 TWA: 10 mg/m3 ()				
			Dritain En40	STEL: ()				
8.2	Exposure Controls:				1			
8.2.1	Engineering Controls	Use p	rocess enclosures, lo	cal exhaust ventilation, or other engineering controls to	control airborne			
	(Ventilation etc.):	levels	evels below recommended exposure limits.					
8.2.2	Personal protection equipment:							
	Eye Protection:	Safety	y glasses					
	Protective Gloves: Comp		patible chemical-resistant gloves					
	Other Protective Clothing:Lab coat							
	Respiratory Equipment	NIOS	SH approved respirator, as conditions warrant.					
	(Specify Type):							
	Work/Hygienic/Maintena	n Do no	t take internally.					
	ce Practices:	Facilit	ies storing or utilizing this material should be equipped with an eyewash and a safety shower					
		Wash	thoroughly after handling.					
		No da	ta available.					
	S	Sectio	n 9. Physical	and Chemical Properties				
9.1	Information on Basic Phy	sical a	nd Chemical Propert	ies				
	Physical States:		[]Gas [X]Liq	uid [] Solid				
	Appearance and Odor:		50 mM sodium bica	rbonate, pH 8.6, containing 100 mM sodium chloride ar	nd 5% glycerol			
	pH:		No data.					
	Melting Point:		No data.					
	Boiling Point:		No data.					
	Flash Pt:		No data.					
	Evaporation Rate:		No data.					
	Flammability (solid, gas)	:	No data available.					
	Explosive Limits:		LEL: No data.	UEL: No data.				
	Vapor Pressure (vs. Air o	or mm	No data.					
	Hg):							
	Vapor Density (vs. Air = '	-	No data.					
	Specific Gravity (Water =	: 1):	No data.					
	Solubility in Water:		No data.					
	Octanol/Water Partition		No data.					
	Coefficient:							
	Autoignition Pt:		No data.					
	Decomposition Temperature:		No data. No data.					
	Viscosity:		No data.					
9.2	Other Information							
	Percent Volatile:		No data.					



SAFETY DATA SHEET F4E (human recombinant: GST-tagg

eIF4E (human recombinant; GST-tagged)

Revision: 10/02/2018 Supersedes Revision: 02/27/2015

			Section 10. Stability and	Reactiv	ity				
10.1	Reactivit	y:	No data available.						
10.2	Stability		Unstable [] Stable [X]						
10.3	Stability	Note(s):	Stable if stored in accordance with informa	tion listed or	the product i	nsert.			
	Polymer	ization:	Will occur [] Will not occur [X]						
10.4	Conditio	ns To Avoid:	No data available.						
10.5	Incompa	tibility - Materials	No data available.						
	To Avoid	l:							
10.6	Hazardo	us	No data available.						
	Decomp	osition or							
	Byprodu	cts:							
			Section 11. Toxicological	Informat	tion				
11.1	Informat	ion on	The toxicological effects of this product have	ve not been t	thoroughly stu	ıdied.			
	Toxicolo	gical Effects:							
Carcin	ogenicity	:	NTP? No IARC Monographs? No	OSHA Reg	julated? No				
CAS #	ŧ	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
<u> </u>	NA	elF4E (human red	combinant; GST-tagged)	n.a.	n.a.	n.a.	n.a.		
56-	·81-5	Glycerol		n.a.	n.a.	n.a.	n.a.		
144	-55-8	Sodium hydrogen	n carbonate	n.a.	n.a.	n.a.	n.a.		
7647	7-14-5	Sodium chloride	n.a. n.a. n.a.				n.a.		
7732	2-18-5	Water		n.a.	n.a.	n.a.	n.a.		
			Section 12. Ecological Ir	formatio	<u>י</u> חר מכ				
12.1	Toxicity		Avoid release into the environment.						
12.1	Toxicity:		Runoff from fire control or dilution water may cause pollution.						
12.2	Poreisto	nce and	No data available.						
	2.2 Persistence and No data available. Degradability:								
123	-	-	No data available.						
12.5	I2.3 Bioaccumulative No data available. Potential:								
12.4	Mobility		No data available.						
12.5	-		3 No data available.						
12.5	assessm								
12.6			No data available.						
12.0									
L	Section 13. Disposal Considerations								
13.1 Waste Disposal Method:			Dispose in accordance with local, state, and federal regulations.						
	Multi-region format								



SAFETY DATA SHEET eIF4E (human recombinant; GST-tagged)

Revision: 10/02/2018 015

Supersedes Revision: 02/27/2015								
Section 14. Transport Information								
14.1 LAND TRANSPORT (US DOT):								
DOT Prope	DOT Proper Shipping Name: Not dangerous goods.							
DOT Hazar								
UN/NA Nur								
	RANSPORT (Euro							
UN Numbe	hipping Name: r·	Not dangerous goods.						
Hazard Cla								
14.3 AIR TR	ANSPORT (ICAO/I	IATA):						
	Shipping Name:	Not dangerous goods.						
Additional Trai	nsport	Transport in accordance with lo	cal, state, and federa	l regulations.				
Information:								
Section 15. Regulatory Information								
EPA SARA (Su	perfund Amendm	nents and Reauthorization Act	of 1986) Lists					
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)			
NA	elF4E (human ree	combinant; GST-tagged)	No	No	No			
56-81-5	Glycerol		No	No	No			
144-55-8	Sodium hydroger	n carbonate	No	No	No			
7647-14-5	Sodium chloride		No	No	No			
7732-18-5	Water		No	No	No			
CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists								
NA	elF4E (human ree	combinant; GST-tagged)	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					
144-55-8	Sodium hydroger	n carbonate	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					
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 acco No.1272/2008.	accordance with 29 CFR 1910.1200 and Regulation (EC)					
Section 16. Other Information								
Revision Date:								
Additional Information About No data available.								
This Product:								
Company Polic	y 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.						