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according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 **Product Code:** 15137

> **Product Name:** eIF4E (human recombinant)

Synonyms: eIF-4F 25 kDa subunit; Eukaryotic Translation Initiation Factor 4E; mRNA Cap-binding Protein;

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Relevant identified uses: For research use only, not for human or veterinary use.

1.3 **Details of the Supplier of the Safety Data Sheet:**

> **Company Name:** Cayman Chemical Company

> > 1180 E. Ellsworth Rd. Ann Arbor, MI 48108

Web site address: www.caymanchem.com

Information: Cayman Chemical Company +1 (734)971-3335

1.4 **Emergency telephone number:**

> CHEMTREC Within USA and Canada: +1 (800)424-9300 **Emergency Contact:**

> > CHEMTREC Outside USA and Canada: +1 (703)527-3887

Section 2. Hazards Identification

2.1 **Classification of the Substance or Mixture:**

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]:

2.2 **Label Elements:**

2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]:

GHS Signal Word:

GHS Hazard Phrases:

Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.

GHS Precaution Phrases:

No phrases apply.

GHS Response Phrases:

No phrases apply.

GHS Storage and Disposal Phrases:

Please refer to Section 7 for Storage and Section 13 for Disposal information.

2.3 Material may be irritating to the mucous membranes and upper respiratory tract. **Adverse Human Health**

May be harmful by inhalation, ingestion, or skin absorption. **Effects and Symptoms:**

May cause eye, skin, or respiratory system irritation.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Section 3. Composition/Information on Ingredients

CAS#/ RTECS#	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
NA NA	eIF4E (human recombinant)	0.0 -0.1 %	NA NA	No data available.
56-81-5 MA8050000	Glycerol	0.0 -20.0 %	200-289-5 NA	No data available.
51805-45-9 NA	Tris(2-carboxyethyl)phosphine hydrochloride	0.029 %	NA NA	Skin Corr. 1B: H314
7647-14-5	Sodium chloride	0.584 %	231-598-3	No data available.

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VZ4725000			NA	
7558-79-4 WC4500000	Sodium phosphate, Dibasic	0.284 %	231-448-7 NA	Eye Damage 2: H319
7732-18-5 ZC0110000	Water	79.003 -99.003 %	231-791-2 NA	No data available.

Section 4. First Aid Measures

4.1 Description of First Aid No data available.

Measures:

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 if symptoms occur. Wash clothing before 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 personnel.

In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an

unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by

medical personnel.

Section 5. Fire Fighting Measures

5.1 Suitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

Media: Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing A solid water stream may be inefficient.

Media:

5.2 Flammable Properties and Emits toxic fumes under fire conditions.

Hazards:

Flash Pt: No data.

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: No data.

5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or

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 provide adequate ventilation.

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

Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

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.

7.2 Precautions To Be Taken Keep container tightly closed.

in Storing: Store in accordance with information listed on the product insert.



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Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

CAS#	Partial Chemical Name	Britain EH40	France VL	Europe
NA	eIF4E (human recombinant)	No data.	No data.	No data.
56-81-5	Glycerol	TWA: 10 mg/m3 () STEL: ()	TWA: 10 mg/m3	No data.
51805-45-9	Tris(2-carboxyethyl)phosphine hydrochloride	No data.	No data.	No data.
7647-14-5	Sodium chloride	No data.	No data.	No data.
7558-79-4	Sodium phosphate, Dibasic	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
UAU #	Partial Chemical Name	OSHA IWA	ACGIN TWA	Other Limits
NA	elF4E (human recombinant)	No data.	No data.	No data.
NA	elF4E (human recombinant)	No data. PEL: 15 (dust); 5 (resp.)	No data.	No data.
NA 56-81-5	eIF4E (human recombinant) Glycerol Tris(2-carboxyethyl)phosphine	No data. PEL: 15 (dust); 5 (resp.) mg/m3	No data. TLV: 10 mg/m3	No data.
NA 56-81-5 51805-45-9	elF4E (human recombinant) Glycerol Tris(2-carboxyethyl)phosphine hydrochloride	No data. PEL: 15 (dust); 5 (resp.) mg/m3 No data.	No data. TLV: 10 mg/m3 No data.	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

(Ventilation etc.): 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 and a safety shower.

Wash thoroughly after handling.

No data available.





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Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical 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 = 1): No data.

Specific Gravity (Water = 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 - Materials strong bases

To Avoid: strong oxidizing agents

10.6 Hazardous carbon dioxideDecomposition Or carbon monoxide

Byproducts:

Section 11. Toxicological Information

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.

Effects: 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

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
eIF4E (human recombinant)	n.a.	n.a.	n.a.	n.a.
Glycerol	n.a.	n.a.	n.a.	n.a.
Tris(2-carboxyethyl)phosphine hydrochloride	n.a.	n.a.	n.a.	n.a.
Sodium chloride	n.a.	n.a.	n.a.	n.a.
Sodium phosphate, Dibasic	n.a.	n.a.	n.a.	n.a.
Water	n.a.	n.a.	n.a.	n.a.
	elF4E (human recombinant) Glycerol Tris(2-carboxyethyl)phosphine hydrochloride Sodium chloride Sodium phosphate, Dibasic	elF4E (human recombinant) Glycerol Tris(2-carboxyethyl)phosphine hydrochloride Sodium chloride Sodium phosphate, Dibasic n.a. n.a.	elF4E (human recombinant) n.a. Glycerol n.a. Tris(2-carboxyethyl)phosphine hydrochloride n.a. Sodium chloride n.a. n.a. n.a. n.a. n.a. n.a. n.a. n.a.	elF4E (human recombinant) n.a. sodium chloride n.a. n.a.





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Section 12. Ecological Information

12.1 Toxicity: Avoid release into the environment.

Runoff from fire control or dilution water may cause pollution.

12.2 Persistence and No data available.

Degradability:

12.3 Bioaccumulative No data available.

Potential:

12.4 Mobility in Soil: No data available.12.5 Results of PBT and vPvB No data available.

assessment:

Section 13. Disposal Considerations

13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.

Section 14. Transport Information

14.1 LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not dangerous goods.

DOT Hazard Class: UN/NA Number:

14.1 LAND TRANSPORT (European ADR/RID):

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:

Section 15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS#	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
NA	eIF4E (human recombinant)	No	No	No
56-81-5	Glycerol	No	No	No
51805-45-9	Tris(2-carboxyethyl)phosphine hydrochloride	No	No	No
7647-14-5	Sodium chloride	No	No	No
7558-79-4	Sodium phosphate, Dibasic	No	Yes 5000 LB	No
7732-18-5	Water	No	No	No

CAS#	Hazardous Components (Chemical Name)	Other US EPA or State Lists
NA	eIF4E (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
51805-45-9	Tris(2-carboxyethyl)phosphine hydrochloride	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No
7647-14-5	Sodium chloride	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No

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7558-79-4	Sodium phosphate, Dibasic	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 Information This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)

Statement: No.1272/2008.

Section 16. Other Information

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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.