

# • SAFETY DATA SHEET

Version 9.6  
Revision Date 01/26/2026  
Print Date 01/27/2026

## SECTION 1. IDENTIFICATION

### 1.1 Product identifiers

Product name : Hum Total Proinsulin ELISA Kit (BLKPAK)  
Product Number : EZHPI  
Catalogue No. : 6D9810  
Brand : Millipore

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

Identified uses : Biochemical research/analysis  
Uses advised against :

The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

### 1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.  
3050 SPRUCE ST  
ST. LOUIS MO 63103  
UNITED STATES  
Telephone : +1 314 771-5765  
Fax : +1 800 325-5052

### 1.4 Emergency telephone number

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-  
527-3887 CHEMTREC (International) 24  
Hours/day; 7 Days/week

This is a summary SDS for a kit. For the full SDS for each of the components listed in section 16 please visit our website.

This is a summary SDS for a kit. For the full SDS for each of the components listed in section 16 please visit our website.

## SECTION 2. HAZARDS IDENTIFICATION

### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)


#### Hazards for the product as supplied

Corrosive to metals : Category 1  
Skin sensitisation : Category 1  
Short-term (acute) aquatic hazard : Category 3

#### Other hazards

None known.

#### GHS label elements

Hazard pictograms : 

Signal word : Warning

Hazard statements : H290 May be corrosive to metals.  
H317 May cause an allergic skin reaction.  
H402 Harmful to aquatic life.

Precautionary statements : **Prevention:**  
P234 Keep only in original packaging.  
P261 Avoid breathing mist or vapours.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves.  
**Response:**  
P302 + P352 IF ON SKIN: Wash with plenty of water.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P390 Absorb spillage to prevent material damage.  
**Storage:**  
P406 Store in a corrosion resistant container with a resistant inner liner.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

---

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Refer to component SDS

---

**SECTION 4. FIRST AID MEASURES**

Refer to component SDS

---

**SECTION 5. FIREFIGHTING MEASURES**

Refer to component SDS

---

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Refer to component SDS

---

**SECTION 7. HANDLING AND STORAGE**

For precautions see section 2.2.

Conditions for safe storage : No metal containers.

Further information on storage conditions : Tightly closed.

Storage class : 10, Combustible liquids

Recommended storage temperature : Recommended storage temperature see product label.

Further information on storage stability : Recommended storage temperature see product label.

---

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Refer to component SDS

---

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Refer to component SDS

---

**SECTION 10. STABILITY AND REACTIVITY**

Refer to component SDS

---

**SECTION 11. TOXICOLOGICAL INFORMATION**

Refer to component SDS

Millipore - EZHPI

Page 3 of 14

The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the US and Canada



---

## SECTION 12. ECOLOGICAL INFORMATION

Refer to component SDS

---

## SECTION 13. DISPOSAL CONSIDERATIONS

Refer to component SDS

---

## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### IATA-DGR

UN/ID No. : UN 3316  
Proper shipping name : Chemical kit  
Class : 9  
Packing group : III  
Labels : Class 9 - Miscellaneous dangerous substances and articles  
Packing instruction (cargo aircraft) : 960  
Packing instruction (passenger aircraft) : 960

#### IMDG-Code

UN number : UN 3316  
Proper shipping name : CHEMICAL KIT  
  
Class : 9  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-P  
Marine pollutant : no

### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

### National Regulations

#### 49 CFR Road

UN/ID/NA number : UN 3316  
Proper shipping name : Chemical kits  
  
Class : 9  
Packing group : III  
Labels : Class 9 - Miscellaneous dangerous substances and articles  
ERG Code : 171  
Marine pollutant : no  
  
Poison Inhalation Hazard : No

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## SECTION 15. REGULATORY INFORMATION

### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Component TPQ (lbs)
Human Total Proinsulin Detection Antibody for ELISA (12ml)..	Not Assigned	
ELISA Quality Controls I & II (0.5 ml)	Not Assigned	
Matrix Solution	Not Assigned	
Assay Buffer (9 ml)	Not Assigned	
Enzyme Solution (12 ml)	Not Assigned	
Matrix Solution BIOHAZARD (1 ml)	Not Assigned	
Human Total/Intact Proinsulin ELISA Microtiter Plate	Not Assigned	
Substrate (TMB) (12 ml)	Not Assigned	
Stop Solution (12 ml)	7647-01-0	
10X HRP Wash Buffer	Not Assigned	

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### Clean Air Act

Warning: Manufactured with Matrix Solution, Assay Buffer (9 ml), Substrate (TMB) (12 ml), Stop Solution (12 ml), 10X HRP Wash Buffer, a substance which harms public health and environment by destroying ozone in the upper atmosphere.

40 CFR Protection of Environment; Part 82  
Protection of Stratospheric Ozone - CAA Section 602 Class I Substances  
Ozone-Depletion Potential

40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I SubstancesOzone-Depletion Potential :

40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I SubstancesOzone-Depletion Potential :

40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I SubstancesOzone-Depletion Potential : 7647-01-0

40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I SubstancesOzone-Depletion Potential :

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

The following chemical(s) are listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F):

10X HRP Wash Buffer	Not Assigned	>= 90 - <= 100 %
Substrate (TMB) (12 ml)	Not Assigned	>= 90 - <= 100 %
Matrix Solution	Not Assigned	>= 90 - <= 100 %
Assay Buffer (9 ml)	Not Assigned	>= 90 - <= 100 %
Stop Solution (12 ml)	7647-01-0	>= 90 - <= 100 %

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

10X HRP Wash Buffer	Not Assigned	>= 90 - <= 100 %
Substrate (TMB) (12 ml)	Not Assigned	>= 90 - <= 100 %
Matrix Solution	Not Assigned	>= 90 - <= 100 %
Assay Buffer (9 ml)	Not Assigned	>= 90 - <= 100 %
Stop Solution (12 ml)	7647-01-0	>= 90 - <= 100 %

## Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

10X HRP Wash Buffer	Not Assigned	>= 90 - <= 100 %
Substrate (TMB) (12 ml)	Not Assigned	>= 90 - <= 100 %
Matrix Solution	Not Assigned	>= 90 - <= 100 %
Assay Buffer (9 ml)	Not Assigned	>= 90 - <= 100 %
Stop Solution (12 ml)	7647-01-0	>= 90 - <= 100 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

10X HRP Wash Buffer	Not Assigned	>= 90 - <= 100 %
Substrate (TMB) (12 ml)	Not Assigned	>= 90 - <= 100 %
Matrix Solution	Not Assigned	>= 90 - <= 100 %
Assay Buffer (9 ml)	Not Assigned	>= 90 - <= 100 %
Stop Solution (12 ml)	7647-01-0	>= 90 - <= 100 %

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

10X HRP Wash Buffer	Not Assigned	>= 90 - <= 100 %
Substrate (TMB) (12 ml)	Not Assigned	>= 90 - <= 100 %
Matrix Solution	Not Assigned	>= 90 - <= 100 %
Assay Buffer (9 ml)	Not Assigned	>= 90 - <= 100 %
Stop Solution (12 ml)	7647-01-0	>= 90 - <= 100 %

This product contains the following priority pollutants related to the U.S. Clean Water Act:

10X HRP Wash Buffer	Not Assigned	>= 90 - <= 100 %
Substrate (TMB) (12 ml)	Not Assigned	>= 90 - <= 100 %
Matrix Solution	Not Assigned	>= 90 - <= 100 %
Assay Buffer (9 ml)	Not Assigned	>= 90 - <= 100 %
Stop Solution (12 ml)	7647-01-0	>= 90 - <= 100 %

## US State Regulations

### Massachusetts Right To Know

10X HRP Wash Buffer	Not Assigned
Substrate (TMB) (12 ml)	Not Assigned
Matrix Solution	Not Assigned
Human Total/Intact Proinsulin ELISA Microtiter Plate	Not Assigned
Enzyme Solution (12 ml)	Not Assigned
Matrix Solution BIOHAZARD (1 ml)	Not Assigned
Human Total Proinsulin Detection Antibody for ELISA (12ml)..	Not Assigned
Assay Buffer (9 ml)	Not Assigned
ELISA Quality Controls I & II (0.5 ml)	Not Assigned
Stop Solution (12 ml)	7647-01-0

### Pennsylvania Right To Know

Substrate (TMB) (12 ml)	Not Assigned
Matrix Solution	Not Assigned
Matrix Solution BIOHAZARD (1 ml)	Not Assigned
Human Total Proinsulin Detection Antibody for ELISA	Not Assigned

(12ml)..	
Assay Buffer (9 ml)	Not Assigned
ELISA Quality Controls I & II (0.5 ml)	Not Assigned
Stop Solution (12 ml)	7647-01-0

**Maine Chemicals of High Concern**

10X HRP Wash Buffer	Not Assigned
Substrate (TMB) (12 ml)	Not Assigned
Matrix Solution	Not Assigned
Human Total/Intact Proinsulin ELISA Microtiter Plate	Not Assigned
Enzyme Solution (12 ml)	Not Assigned
Matrix Solution BIOHAZARD (1 ml)	Not Assigned
Human Total Proinsulin Detection Antibody for ELISA (12ml)..	Not Assigned
Assay Buffer (9 ml)	Not Assigned
ELISA Quality Controls I & II (0.5 ml)	Not Assigned
Stop Solution (12 ml)	7647-01-0

**Vermont Chemicals of High Concern**

Human Total Proinsulin Detection Antibody for ELISA (12ml)..	Not Assigned
ELISA Quality Controls I & II (0.5 ml)	Not Assigned
Matrix Solution	Not Assigned
Assay Buffer (9 ml)	Not Assigned
Enzyme Solution (12 ml)	Not Assigned
Matrix Solution BIOHAZARD (1 ml)	Not Assigned
Human Total/Intact Proinsulin ELISA Microtiter Plate	Not Assigned
Substrate (TMB) (12 ml)	Not Assigned
Stop Solution (12 ml)	7647-01-0
10X HRP Wash Buffer	Not Assigned

**Washington Chemicals of High Concern**

Human Total Proinsulin Detection Antibody for ELISA (12ml)..	Not Assigned
ELISA Quality Controls I & II (0.5 ml)	Not Assigned
Matrix Solution	Not Assigned
Assay Buffer (9 ml)	Not Assigned
Enzyme Solution (12 ml)	Not Assigned
Matrix Solution BIOHAZARD (1 ml)	Not Assigned
Human Total/Intact Proinsulin ELISA Microtiter Plate	Not Assigned
Substrate (TMB) (12 ml)	Not Assigned
Stop Solution (12 ml)	7647-01-0
10X HRP Wash Buffer	Not Assigned

**The components of this product are reported in the following inventories:**

TSCA : Product contains substance(s) not listed on TSCA inventory.

**TSCA list**

The following substance(s) is/are subject to a Significant New Use Rule:

Human Total Proinsulin Not Assigned  
 Detection Antibody for ELISA

(12ml)..	
ELISA Quality Controls I & II (0.5 ml)	Not Assigned
Matrix Solution	Not Assigned
Assay Buffer (9 ml)	Not Assigned
Enzyme Solution (12 ml)	Not Assigned
Matrix Solution BIOHAZARD (1 ml)	Not Assigned
Human Total/Intact Proinsulin ELISA Microtiter Plate	Not Assigned
Substrate (TMB) (12 ml)	Not Assigned
Stop Solution (12 ml)	7647-01-0
10X HRP Wash Buffer	Not Assigned

The following substance(s) is/are subject to TSCA 12(b) export notification requirements:

Human Total Proinsulin	Not Assigned
Detection Antibody for ELISA (12ml)..	
ELISA Quality Controls I & II (0.5 ml)	Not Assigned
Matrix Solution	Not Assigned
Assay Buffer (9 ml)	Not Assigned
Enzyme Solution (12 ml)	Not Assigned
Matrix Solution BIOHAZARD (1 ml)	Not Assigned
Human Total/Intact Proinsulin ELISA Microtiter Plate	Not Assigned
Substrate (TMB) (12 ml)	Not Assigned
Stop Solution (12 ml)	7647-01-0
10X HRP Wash Buffer	Not Assigned

---

## SECTION 16. OTHER INFORMATION

### Kit Components:

Human Total Proinsulin	Sigma-Aldrich	E1015
Detection Antibody for ELISA (12ml)..		
ELISA Quality Controls I & II (0.5 ml)	Sigma-Aldrich	E6000-K
Matrix Solution	Millipore	EMTX-HS2
Assay Buffer (9 ml)	Millipore	EABU
Enzyme Solution (12 ml)	Millipore	EHRP
Matrix Solution BIOHAZARD (1 ml)	Millipore	EMTX
Human Total/Intact Proinsulin ELISA Microtiter Plate	Sigma-Aldrich	EP15
Substrate (TMB) (12 ml)	Millipore	ESS-TMB
Stop Solution (12 ml)	Millipore	ET-TMB-M
10X HRP Wash Buffer	Millipore	EWB-HRP

Millipore - EZHPI

Page 9 of 14

The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the US and Canada



## Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.sigma-aldrich.com](http://www.sigma-aldrich.com) and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Copyright 2025 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.

Revision Date : 01/26/2026

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information

in the document regarding the product remains unchanged and matches the product ordered.  
For further information please contact [mlsbranding@sial.com](mailto:mlsbranding@sial.com).

US / EN


## Kit Components:

<b>Human Total Proinsulin Detection Antibody for ELISA (12ml)..</b>					
Product identifier	Pictogram	Signal word	Hazard statements	Precautionary statements	Supplemental information
Sigma-Aldrich - E1015					Not a hazardous substance or mixture.

<b>ELISA Quality Controls I &amp; II (0.5 ml)</b>					
Product identifier	Pictogram	Signal word	Hazard statements	Precautionary statements	Supplemental information
Sigma-Aldrich - E6000-K			Harmful to aquatic life.	Avoid release to the environment. Dispose of contents/ container to an approved waste disposal plant.	

<b>Matrix Solution</b>					
Product identifier	Pictogram	Signal word	Hazard statements	Precautionary statements	Supplemental information
Millipore - EMTX-HS2					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.


<b>Assay Buffer (9 ml)</b>					
Product identifier	Pictogram	Signal word	Hazard statements	Precautionary statements	Supplemental information
Millipore - EABU					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

<b>Enzyme Solution (12 ml)</b>					
Product identifier	Pictogram	Signal word	Hazard statements	Precautionary statements	Supplemental information
Millipore - EHRP		Warning	May cause an allergic skin reaction.	Avoid breathing mist or vapours. IF ON SKIN: Wash with plenty of water. Dispose of contents/ container to an approved waste disposal plant. Contaminated work clothing must not be allowed out of the workplace. If skin irritation or rash occurs: Get medical advice/ attention. Wear protective gloves. Take off contaminated clothing and wash it before reuse.	

<b>Matrix Solution BIOHAZARD (1 ml)</b>					
Product identifier	Pictogram	Signal word	Hazard statements	Precautionary statements	Supplemental information
Millipore - EMTX					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

<b>Human Total/Intact Proinsulin ELISA Microtiter Plate</b>					
Product identifier	Pictogram	Signal word	Hazard statements	Precautionary statements	Supplemental information
Sigma-Aldrich - EP15					Not a hazardous substance or mixture.

<b>Substrate (TMB) (12 ml)</b>					
Product identifier	Pictogram	Signal word	Hazard statements	Precautionary statements	Supplemental information
Millipore - ESS-TMB					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

<b>Stop Solution (12 ml)</b>					
Product identifier	Pictogram	Signal word	Hazard statements	Precautionary statements	Supplemental information
Millipore - ET-TMB-M		Warning	May be corrosive to metals.	Keep only in original packaging. Absorb spillage to prevent material damage. Store in a corrosion resistant container with a resistant inner liner.	

<b>10X HRP Wash Buffer</b>					
Product identifier	Pictogram	Signal word	Hazard statements	Precautionary statements	Supplemental information
Millipore - EWB-HRP					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.