

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 8.5  
Revision Date 20.02.2025  
Print Date 03.05.2025  
GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

Product name : Human S100B ELISA - 96-Well Plate Assay

Product Number : EZHS100B

Catalogue No. : 638659

Brand : Millipore

REACH No. :

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

Identified uses : Reagent for analysis

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

Company :

### 1.4 Emergency telephone

Emergency Phone # : +(44)-870-8200418 (CHEMTREC (GB))  
+(353)-19014670 (CHEMTREC Ireland)  
001-803-017-9114 (CHEMTREC India)

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

### 2.1 Classification of the substance or mixture

Corrosive to Metals, (Category 1) H290: May be corrosive to metals.

Acute toxicity, (Category 4) H302: Harmful if swallowed.

Acute toxicity, (Category 4) H332: Harmful if inhaled.

Acute toxicity, (Category 3) H311: Toxic in contact with skin.

Skin sensitization, (Category 1) H317: May cause an allergic skin reaction.

Long-term (chronic) aquatic hazard, (Category 2) H411: Toxic to aquatic life with long lasting effects.

### 2.2 Label elements

**Labelling according Regulation (EC) No 1272/2008**



Pictogram



Signal Word

Danger

Hazard Statements

H290

May be corrosive to metals.

H302 + H332

Harmful if swallowed or if inhaled.

H311

Toxic in contact with skin.

H317

May cause an allergic skin reaction.

H411

Toxic to aquatic life with long lasting effects.

Precautionary Statements

P234

Keep only in original packaging.

P273

Avoid release to the environment.

P280

Wear protective gloves/ protective clothing.

P301 + P312

IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.

P302 + P352 + P312

IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/ doctor if you feel unwell.

P304 + P340 + P312

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

Supplemental Hazard Statements

none

### Reduced Labeling (<= 125 ml)

Pictogram



Signal Word

Danger

Hazard Statements

H311

Toxic in contact with skin.

H317

May cause an allergic skin reaction.

Precautionary Statements

P280

Wear protective gloves/ protective clothing.

P302 + P352 + P312

IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/ doctor if you feel unwell.

Supplemental Hazard Statements

none

## 2.3 Other hazards - none

---

## 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

Millipore- EZHS100B

Page 2 of 10

The life science business of Merck operates as MilliporeSigma in the US and Canada



---

## **SECTION 6: Accidental release measures**

Refer to component SDS

---

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

#### **Advice on safe handling**

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

#### **Hygiene measures**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

### **7.2 Conditions for safe storage, including any incompatibilities**

#### **Storage conditions**

No metal containers.

Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Recommended storage temperature see product label.

#### **Storage class**

Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects

### **7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

---

## **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

---

## **SECTION 12: Ecological information**

Refer to component SDS



---

## SECTION 13: Disposal considerations

Refer to component SDS

---

## SECTION 14: Transport information

### 14.1 UN number

ADR/RID: 3316

IMDG: 3316

IATA: 3316

### 14.2 UN proper shipping name

ADR/RID: CHEMICAL KIT

IMDG: CHEMICAL KIT

IATA: Chemical kit

### 14.3 Transport hazard class(es)

ADR/RID: 9

IMDG: 9

IATA: 9

### 14.4 Packaging group

ADR/RID: III

IMDG: III

IATA: III

### 14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

### 14.6 Special precautions for user

Further information : No data available

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

---

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Refer to component SDS

### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

---

## SECTION 16: Other information

#### Kit Components:

Human S100B ELISA  
Plate

Millipore

EP33

Assay Buffer (30ml) -  
ELISA

Sigma-Aldrich

AB-33K

Human S100B ELISA  
Antibody Conjugate

Sigma-Aldrich

E1033



Human S100B Quality Controls 1,2 (0.5ml) ELISA.	Sigma-Aldrich	E6033-K	Acute Tox. 4; Acute Tox. 3; Aquatic Chronic 2; H302 + H332, H311, H411
Human S100B Standard (0.5ml) ELISA	Sigma-Aldrich	E8033-K	Acute Tox. 4; Acute Tox. 3; Aquatic Chronic 2; H302 + H332, H311, H411
Enzyme Solution	Millipore	EHRP-88	Skin Sens. 1; H317
Matrix Solution (5.0 ml) ELISA	Millipore	EMTX-HS	Acute Tox. 4; Aquatic Chronic 3; H312, H412
Substrate (TMB) (12 ml)	Millipore	ESS-TMB	
Stop Solution (12 ml)	Millipore	ET-TMB-M	Met. Corr. 1; H290
10X HRP Wash Buffer	Millipore	EWB-HRP	Skin Sens. 1; H317

### Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; 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; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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 Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; 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; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; 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

### Classification of the mixture

Met. Corr.1	H290
Acute Tox.4	H302
Acute Tox.4	H332
Acute Tox.3	H311
Skin Sens.1	H317

### Classification procedure:

Calculation method
Calculation method
Calculation method
Calculation method
Calculation method



**Further information**

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 2020 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.

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).




## Kit Components:

Human S100B ELISA Plate					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Millipore - EP33					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Assay Buffer (30ml) - ELISA					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - AB-33K					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.


Human S100B ELISA Antibody Conjugate					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - E1033					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Human S100B Quality Controls 1,2 (0.5ml) ELISA.					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - E6033-K		Danger	Harmful if swallowed or if inhaled. Toxic in contact with skin. Toxic to aquatic life with long lasting effects.	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Avoid release to the environment. IF ON SKIN: Wash with plenty of water. Call a	




				<p>POISON CENTER/ doctor if you feel unwell. Wear protective gloves/ protective clothing. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.</p>	
--	--	--	--	---	--


#### Human S100B Standard (0.5ml) ELISA

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - E8033-K		Danger	<p>Harmful if swallowed or if inhaled. Toxic in contact with skin. Toxic to aquatic life with long lasting effects.</p>	<p>Avoid breathing dust. IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Avoid release to the environment. IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/ doctor if you feel unwell. Wear protective gloves/ protective clothing. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.</p>	







<b>Enzyme Solution</b>					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Millipore - EHRP-88		Warning	May cause an allergic skin reaction.	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. IF ON SKIN: Wash with plenty of water. Contaminated work clothing should 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 (5.0 ml) ELISA</b>					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Millipore - EMTX-HS		Warning	Harmful in contact with skin. Harmful to aquatic life with long lasting effects.	Avoid release to the environment. IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/ doctor if you feel unwell. Dispose of contents/ container to an approved waste disposal plant. Wear protective gloves/ protective clothing. Take off contaminated clothing and wash it before reuse.	



<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.	

<b>10X HRP Wash Buffer</b>					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Millipore - EWB-HRP		Warning	May cause an allergic skin reaction.	Avoid breathing mist or vapors. IF ON SKIN: Wash with plenty of water. Contaminated work clothing should 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.	

