



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 6.10

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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 : Rat Fas Ligand ELISA Kit

Product Number : RAB0179

Brand : Sigma

REACH No. : This product is a mixture. REACH Registration Number see section 3.

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

Identified uses : Laboratory chemicals, Manufacture of substances

### 1.3

### 1.4 Emergency telephone

Emergency Phone # : 000 800 1007 141 (CHEMTREC)

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.

### 2.2 Label elements

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

Pictogram

Signal Word

Warning

|                                |                                             |
|--------------------------------|---------------------------------------------|
| Hazard Statements              |                                             |
| H290                           | May be corrosive to metals.                 |
| Precautionary Statements       |                                             |
| P234                           | Keep only in original packaging.            |
| P390                           | Absorb spillage to prevent material damage. |
| Supplemental Hazard Statements | none                                        |

#### **Reduced Labeling (<= 125 ml)**

|                                |         |
|--------------------------------|---------|
| Pictogram                      | none    |
| Signal Word                    | Warning |
| Hazard Statements              | none    |
| Precautionary Statements       | none    |
| Supplemental Hazard Statements | none    |

### **2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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## **SECTION 3: Composition/information on ingredients**

Refer to component SDS

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## **SECTION 4: First aid measures**

Refer to component SDS

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## **SECTION 5: Firefighting measures**

Refer to component SDS

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

Refer to component SDS

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

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

For precautions see section 2.2.

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

#### **Storage conditions**

Keep container tightly closed in a dry and well-ventilated place. Store in cool place. No metal containers.

Tightly closed.

**Storage stability** Recommended storage temperature

-20 °C

#### **Storage class**

Storage class (TRGS 510): 8A: Combustible, corrosive hazardous materials

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

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

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## **SECTION 8: Exposure controls/personal protection**

Refer to component SDS

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## **SECTION 9: Physical and chemical properties**

Refer to component SDS

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## **SECTION 10: Stability and reactivity**

Refer to component SDS

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## **SECTION 11: Toxicological information**

Refer to component SDS

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## **SECTION 12: Ecological information**

Refer to component SDS

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## SECTION 13: Disposal considerations

Refer to component SDS

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## SECTION 14: Transport information

### 14.1 UN number

ADR/RID: 3264

IMDG: 3264

IATA: 3264

### 14.2 UN proper shipping name

ADR/RID: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (sulphuric acid)

IMDG: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (sulphuric acid)

IATA: Corrosive liquid, acidic, inorganic, n.o.s. (sulphuric acid)

### 14.3 Transport hazard class(es)

ADR/RID: 8

IMDG: 8

IATA: 8

### 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

Tunnel restriction code : (E)

Further information : No data available

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## 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

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## SECTION 16: Other information

### Kit Components:

|                                                        |       |          |                    |
|--------------------------------------------------------|-------|----------|--------------------|
| 20X Wash Buffer (Item B)                               | Sigma | RABWASH4 |                    |
| HRP-Streptavidin (Item G)                              | Sigma | RABHRP5  |                    |
| ELISA Colorimetric TMB Reagent (HRP Substrate, Item H) | Sigma | RABTMB3  |                    |
| ELISA Stop Solution (Item I)                           | Sigma | RABSTOP3 | Met. Corr. 1; H290 |
| ELISA 1X Assay/Sample Diluent Buffer C (Item L)        | Sigma | RABELADC |                    |
| ELISA 5X Assay/Sample                                  | Sigma | RABELADB |                    |

Diluent Buffer B (Item E1)

### **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

### **Further information**

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## Kit Components:

| <b>20X Wash Buffer (Item B)</b> |           |             |                   |                          |                                                                                                      |
|---------------------------------|-----------|-------------|-------------------|--------------------------|------------------------------------------------------------------------------------------------------|
| Product identifier              | Pictogram | Signal Word | Hazard Statements | Precautionary Statements | Supplemental information                                                                             |
| Sigma - RABWASH4                |           |             |                   |                          | No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required. |

| <b>HRP-Streptavidin (Item G)</b> |           |             |                   |                          |                                                                                                      |
|----------------------------------|-----------|-------------|-------------------|--------------------------|------------------------------------------------------------------------------------------------------|
| Product identifier               | Pictogram | Signal Word | Hazard Statements | Precautionary Statements | Supplemental information                                                                             |
| Sigma - RABHRP5                  |           |             |                   |                          | No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required. |

| <b>ELISA Colorimetric TMB Reagent (HRP Substrate, Item H)</b> |           |             |                   |                          |                                                                                                      |
|---------------------------------------------------------------|-----------|-------------|-------------------|--------------------------|------------------------------------------------------------------------------------------------------|
| Product identifier                                            | Pictogram | Signal Word | Hazard Statements | Precautionary Statements | Supplemental information                                                                             |
| Sigma - RABTMB3                                               |           |             |                   |                          | No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required. |

| <b>ELISA Stop Solution (Item I)</b> |           |             |                             |                                                  |                          |
|-------------------------------------|-----------|-------------|-----------------------------|--------------------------------------------------|--------------------------|
| Product identifier                  | Pictogram | Signal Word | Hazard Statements           | Precautionary Statements                         | Supplemental information |
| Sigma - RABSTOP3                    |           | Warning     | May be corrosive to metals. | Keep only in original packaging. Absorb spillage |                          |

|  |  |  |  |                             |  |
|--|--|--|--|-----------------------------|--|
|  |  |  |  | to prevent material damage. |  |
|--|--|--|--|-----------------------------|--|

**ELISA 1X Assay/Sample Diluent Buffer C (Item L)**

| Product identifier | Pictogram | Signal Word | Hazard Statements | Precautionary Statements | Supplemental information                                                                             |
|--------------------|-----------|-------------|-------------------|--------------------------|------------------------------------------------------------------------------------------------------|
| Sigma - RABELADC   |           |             |                   |                          | No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required. |

**ELISA 5X Assay/Sample Diluent Buffer B (Item E1)**

| Product identifier | Pictogram | Signal Word | Hazard Statements | Precautionary Statements | Supplemental information                                                                             |
|--------------------|-----------|-------------|-------------------|--------------------------|------------------------------------------------------------------------------------------------------|
| Sigma - RABELADB   |           |             |                   |                          | No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required. |

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