



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 6.15

Revision Date 16.01.2024

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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 : Cell-Based ELISA for detecting phospho-EGFR (pTyr<sup>1068</sup>) in cultured cell lines

Product Number : RAB0152

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

Uses advised against : For R&D use only. Not for pharmaceutical, household or other uses.

### 1.3

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### 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.

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

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

|                                                                                    |                                                          |
|------------------------------------------------------------------------------------|----------------------------------------------------------|
| Skin irritation, (Category 2)                                                      | H315: Causes skin irritation.                            |
| Serious eye damage, (Category 1)                                                   | H318: Causes serious eye damage.                         |
| Skin sensitization, (Category 1)                                                   | H317: May cause an allergic skin reaction.               |
| Germ cell mutagenicity, (Category 2)                                               | H341: Suspected of causing genetic defects.              |
| Carcinogenicity, (Category 1B)                                                     | H350: May cause cancer.                                  |
| Specific target organ toxicity - single exposure, (Category 3), Respiratory system | H335: May cause respiratory irritation.                  |
| Long-term (chronic) aquatic hazard, (Category 3)                                   | H412: Harmful 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.                                                                                              |
| H315                     | Causes skin irritation.                                                                                                          |
| H317                     | May cause an allergic skin reaction.                                                                                             |
| H318                     | Causes serious eye damage.                                                                                                       |
| H335                     | May cause respiratory irritation.                                                                                                |
| H341                     | Suspected of causing genetic defects.                                                                                            |
| H350                     | May cause cancer.                                                                                                                |
| H412                     | Harmful to aquatic life with long lasting effects.                                                                               |
| Precautionary Statements |                                                                                                                                  |
| P273                     | Avoid release to the environment.                                                                                                |
| P280                     | Wear protective gloves/ protective clothing/ eye protection/ face protection.                                                    |
| P301 + P312              | IF SWALLOWED: 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.      |
| P305 + P351 + P338       | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308 + P313              | IF exposed or concerned: Get medical advice/ attention.                                                                          |
| Supplemental Hazard      | none                                                                                                                             |

## Statements

### Reduced Labeling (<= 125 ml)

#### Pictogram

|                                |                                                                                                                                  |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Signal Word                    | Danger                                                                                                                           |
| Hazard Statements              |                                                                                                                                  |
| H317                           | May cause an allergic skin reaction.                                                                                             |
| H341                           | Suspected of causing genetic defects.                                                                                            |
| H350                           | May cause cancer.                                                                                                                |
| H318                           | Causes serious eye damage.                                                                                                       |
| H412                           | Harmful to aquatic life with long lasting effects.                                                                               |
| Precautionary Statements       |                                                                                                                                  |
| P280                           | Wear protective gloves/ protective clothing/ eye protection/ face protection.                                                    |
| P305 + P351 + P338             | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308 + P313                    | IF exposed or concerned: Get medical advice/ attention.                                                                          |
| 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

#### Advice on safe handling

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

#### Hygiene measures

Change contaminated clothing and immerse in water. 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

Keep container tightly closed in a dry and well-ventilated place. Store in cool place. 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.

**Storage stability** Recommended storage temperature  
-20 °C

#### 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

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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:**

|                                                        |       |           |                                                                                                     |
|--------------------------------------------------------|-------|-----------|-----------------------------------------------------------------------------------------------------|
| Uncoated Microplate                                    | Sigma | RABPLATE1 |                                                                                                     |
| 20X Wash Buffer                                        | Sigma | RABWASH1  |                                                                                                     |
| Concentrate A                                          |       |           |                                                                                                     |
| Fixing Solution (Item D)                               | Sigma | RABFIX1   | Acute Tox. 4; Skin Sens. 1; Muta. 2; Carc. 1B; H317, H332, H341, H350                               |
| Quenching Solution for Cell-based ELISA Assay (Item D) | Sigma | RABQUENCH | Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; STOT SE 3; Aquatic Chronic 3; H302, H315, H318, H335, H412 |
| 5x Blocking Solution (Item F)                          | Sigma | RABBLOCK  |                                                                                                     |
| Phospho-specific Antibody Concentrate (Item G)         | Sigma | RABE1068G |                                                                                                     |
| Pan EGFR Antibody Concentrate (Item H)                 | Sigma | RABEGFRH  |                                                                                                     |
| HRP-conjugated Anti-Rabbit IgG Concentrate (Item I1)   | Sigma | RABHRP1   |                                                                                                     |
| HRP-conjugated Anti-Muc IgG Conc                       | Sigma | RABHRP2   |                                                                                                     |
| TMB Substrate Reagent (Item J)                         | Sigma | RABTMB1   |                                                                                                     |
| Stop Solution                                          | Sigma | RABSTOP1  | Met. Corr. 1; H290                                                                                  |

## 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 |
| Skin Irrit.2     | H315 |
| Eye Dam.1        | H318 |
| Skin Sens.1      | H317 |
| Muta.2           | H341 |
| Carc.1B          | H350 |
| STOT SE3         | H335 |
| Aquatic Chronic3 | H412 |

### Classification procedure:

|                    |
|--------------------|
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |

**Further information**

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## Kit Components:

| <b>Uncoated Microplate</b> |           |             |                   |                          |                                                                                                     |
|----------------------------|-----------|-------------|-------------------|--------------------------|-----------------------------------------------------------------------------------------------------|
| Product identifier         | Pictogram | Signal Word | Hazard Statements | Precautionary Statements | Supplemental information                                                                            |
| Sigma - RABPLATE1          |           |             |                   |                          | No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required |

| <b>20X Wash Buffer Concentrate A</b> |           |             |                   |                          |                                                                                                     |
|--------------------------------------|-----------|-------------|-------------------|--------------------------|-----------------------------------------------------------------------------------------------------|
| Product identifier                   | Pictogram | Signal Word | Hazard Statements | Precautionary Statements | Supplemental information                                                                            |
| Sigma - RABWASH1                     |           |             |                   |                          | No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required |

| <b>Fixing Solution (Item D)</b> |           |             |                                                                                                                           |                                                                                                                                                                                                                                             |                          |
|---------------------------------|-----------|-------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Product identifier              | Pictogram | Signal Word | Hazard Statements                                                                                                         | Precautionary Statements                                                                                                                                                                                                                    | Supplemental information |
| Sigma - RABFIX1                 |           | Danger      | May cause an allergic skin reaction.<br>Harmful if inhaled.<br>Suspected of causing genetic defects.<br>May cause cancer. | Do not handle until all safety precautions have been read and understood.<br>IF ON SKIN: Wash with plenty of water.<br>Avoid breathing mist or vapors.<br>IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a |                          |

|  |  |  |  |                                                                                                                                                                                                                        |  |
|--|--|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  |  |  |  | POISON<br>CENTER/ doctor<br>if you feel<br>unwell. Wear<br>protective<br>gloves/<br>protective<br>clothing/ eye<br>protection/ face<br>protection. IF<br>exposed or<br>concerned: Get<br>medical advice/<br>attention. |  |
|--|--|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

#### **Quenching Solution for Cell-based ELISA Assay (Item D)**

| Product identifier   | Pictogram | Signal Word | Hazard Statements                                                                                                                                                         | Precautionary Statements                                                                                                                                                                                                                                                                                                                                             | Supplemental information |
|----------------------|-----------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Sigma -<br>RABQUENCH |           | Danger      | Harmful if swallowed.<br>Causes skin irritation.<br>Causes serious eye damage.<br>May cause respiratory irritation.<br>Harmful to aquatic life with long lasting effects. | Avoid breathing mist or vapors.<br>IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Avoid release to the environment. IF ON SKIN: Wash with plenty of water. Wear protective gloves/ eye protection/ face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |                          |

#### **5x Blocking Solution (Item F)**

| Product identifier  | Pictogram | Signal Word | Hazard Statements | Precautionary Statements | Supplemental information                |
|---------------------|-----------|-------------|-------------------|--------------------------|-----------------------------------------|
| Sigma -<br>RABBLOCK |           |             |                   |                          | No hazard pictogram, no signal word, no |

|  |  |  |  |  |                                                             |
|--|--|--|--|--|-------------------------------------------------------------|
|  |  |  |  |  | hazard statement(s), no precautionary statement(s) required |
|--|--|--|--|--|-------------------------------------------------------------|

**Phospho-specific Antibody Concentrate (Item G)**

| Product identifier | Pictogram | Signal Word | Hazard Statements | Precautionary Statements | Supplemental information                                                                            |
|--------------------|-----------|-------------|-------------------|--------------------------|-----------------------------------------------------------------------------------------------------|
| Sigma - RABE1068G  |           |             |                   |                          | No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required |

**Pan EGFR Antibody Concentrate (Item H)**

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

**HRP-conjugated Anti-Rabbit IgG Concentrate (Item I1)**

| Product identifier | Pictogram | Signal Word | Hazard Statements | Precautionary Statements | Supplemental information                                                                            |
|--------------------|-----------|-------------|-------------------|--------------------------|-----------------------------------------------------------------------------------------------------|
| Sigma - RABHRP1    |           |             |                   |                          | No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required |

**HRP-conjugated Anti-Muc IgG Conc**

| Product identifier | Pictogram | Signal Word | Hazard Statements | Precautionary Statements | Supplemental information                                                      |
|--------------------|-----------|-------------|-------------------|--------------------------|-------------------------------------------------------------------------------|
| Sigma - RABHRP2    |           |             |                   |                          | No hazard pictogram, no signal word, no hazard statement(s), no precautionary |

|  |  |  |  |  |                          |
|--|--|--|--|--|--------------------------|
|  |  |  |  |  | statement(s)<br>required |
|--|--|--|--|--|--------------------------|

**TMB Substrate Reagent (Item J)**

| Product identifier | Pictogram | Signal Word | Hazard Statements | Precautionary Statements | Supplemental information                                                                            |
|--------------------|-----------|-------------|-------------------|--------------------------|-----------------------------------------------------------------------------------------------------|
| Sigma - RABTMB1    |           |             |                   |                          | No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required |

**Stop Solution**

| Product identifier | Pictogram | Signal Word | Hazard Statements           | Precautionary Statements                                                     | Supplemental information |
|--------------------|-----------|-------------|-----------------------------|------------------------------------------------------------------------------|--------------------------|
| Sigma - RABSTOP1   |           | Warning     | May be corrosive to metals. | Keep only in original packaging. Absorb spillage to prevent material damage. |                          |

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