# SAFETY DATA SHEET
## ELISA PLASMA SAMPLE DILUENT

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

<table>
<thead>
<tr>
<th>1.1. Product identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product name</strong></td>
</tr>
<tr>
<td>ELISA PLASMA SAMPLE DILUENT</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1.2. Relevant identified uses of the substance or mixture and uses advised against</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Identified uses</strong></td>
</tr>
<tr>
<td>For research use only.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1.3. Details of the supplier of the safety data sheet</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Supplier</strong></td>
</tr>
<tr>
<td>Web: <a href="http://www.bio-rad-antibodies.com">www.bio-rad-antibodies.com</a></td>
</tr>
<tr>
<td>Bio-Rad</td>
</tr>
<tr>
<td>Endeavour House</td>
</tr>
<tr>
<td>Langford Business Park</td>
</tr>
<tr>
<td>Kidlington</td>
</tr>
<tr>
<td>Oxford</td>
</tr>
<tr>
<td>OX5 1GE</td>
</tr>
<tr>
<td>Tel. +44 (0)1865 852700</td>
</tr>
<tr>
<td><a href="mailto:antibody_safetydatasheets@bio-rad.com">antibody_safetydatasheets@bio-rad.com</a></td>
</tr>
</tbody>
</table>

| **Contact person**                                 |
| Technical Services Manager                         |
ELISA PLASMA SAMPLE DILUENT

1.4. Emergency telephone number

Emergency telephone +1 7037415970 (CHEMTREC)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified
Health hazards Skin Sens. 1 - H317
Environmental hazards Aquatic Chronic 3 - H412

Human health The product contains a sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.

2.2. Label elements

Pictogram

Signal word Warning

Hazard statements
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P273 Avoid release to the environment.
P302+P352 IF ON SKIN: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
P501 Dispose of contents/ container in accordance with national regulations.

Supplemental label information
Contains METHYL-2H or METHYL-4 (3:1) Mixture (0.00595%). May produce an allergic reaction.

Supplementary precautionary statements
P261 Avoid breathing vapour/ spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P321 Specific treatment (see medical advice on this label).
P362+P364 Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures
ELISA PLASMA SAMPLE DILUENT

P-TERTIARY-OCTYLPHENOXY POLYETHYL ALCOHOL

- CAS number: 9036-19-5
- M factor (Acute) = 10
- M factor (Chronic) = 10

Classification
- Acute Tox. 4 - H302
- Skin Irrit. 2 - H315
- Eye Dam. 1 - H318
- Aquatic Acute 1 - H400
- Aquatic Chronic 1 - H410

Classification (67/548/EEC or 1999/45/EC)
- Xn;R22. Xi;R41.

METHYL-2H or METHYL-4 (3:1) Mixture of EC NO 220-239-6

- CAS number: 55965-84-9
- M factor (Acute) = 100
- M factor (Chronic) = 100

Classification
- Acute Tox. 3 - H301
- Acute Tox. 3 - H311
- Acute Tox. 3 - H331
- Skin Corr. 1B - H314
- Eye Dam. 1 - H318
- Skin Sens. 1 - H317
- Aquatic Acute 1 - H400
- Aquatic Chronic 1 - H410

Classification (67/548/EEC or 1999/45/EC)
- T;R23/24/25 C;R34 R43 N;R50/53

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition comments
- No other ingredients, including those with occupational exposure limits, present above the level of disclosure

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation
If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

Ingestion
Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.

Skin contact
Remove contaminated clothing and rinse skin thoroughly with water. Get medical attention promptly if symptoms occur after washing.

Eye contact
Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation
- Irritation of nose, throat and airway.

Ingestion
- May cause discomfort if swallowed.

Skin contact
- Skin irritation. May cause sensitisation or allergic reactions in sensitive individuals.

Eye contact
- May cause severe eye irritation.
ELISA PLASMA SAMPLE DILUENT

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor

No specific recommendations. If in doubt, get medical attention promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray, foam, dry powder or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Specific hazards
No unusual fire or explosion hazards noted.

Hazardous combustion products
Does not decompose when used and stored as recommended.

5.3. Advice for firefighters

Protective actions during firefighting
No specific firefighting precautions known.

Special protective equipment for firefighters
Use protective equipment appropriate for surrounding materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions
Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate.

6.2. Environmental precautions

Environmental precautions
Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up
Wear protective clothing as described in Section 8 of this safety data sheet. Absorb spillage with non-combustible, absorbent material. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.4. Reference to other sections

Reference to other sections
Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions
Avoid inhalation of vapours/spray and contact with skin and eyes. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions
Keep only in the original container. Store at specified temperature. Refer to product label.

7.3. Specific end use(s)

Specific end use(s)
The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

8.2. Exposure controls
ELISA PLASMA SAMPLE DILUENT

**Protective equipment**

- **Appropriate engineering controls**: Provide adequate ventilation. Avoid inhalation of vapours and spray/mists. Observe any occupational exposure limits for the product or ingredients.
- **Eye/face protection**: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.
- **Hand protection**: Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.
- **Other skin and body protection**: Wear appropriate clothing to prevent any possibility of skin contact. Wear apron or protective clothing in case of contact.
- **Hygiene measures**: Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.
- **Respiratory protection**: No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

### SECTION 9: Physical and Chemical Properties

**9.1. Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Colour</td>
<td>Clear liquid. Light (or pale). Yellow.</td>
</tr>
<tr>
<td>Odour</td>
<td>Characteristic.</td>
</tr>
<tr>
<td>pH</td>
<td>pH (concentrated solution): 7.2 - 7.6</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Initial boiling point and range</td>
<td>&lt;100 °C @ 760 mm Hg</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Soluble in water.</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No unusual fire or explosion hazards noted.</td>
</tr>
</tbody>
</table>

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ELISA PLASMA SAMPLE DILUENT

Oxidising properties  Not determined.

9.2. Other information
Other information  None.

SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity  No data available.

10.2. Chemical stability
Stability  Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions
Possibility of hazardous reactions  Will not polymerise.

10.4. Conditions to avoid
Conditions to avoid  Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

10.6. Hazardous decomposition products
Hazardous decomposition products  Does not decompose when used and stored as recommended.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity - inhalation
Notes (inhalation LC₅₀)  Not determined.

Skin corrosion/irritation
Human skin model test  Not determined.

Extreme pH  7.2

Serious eye damage/irritation  Not determined.

Germ cell mutagenicity
Genotoxicity - in vitro  Not determined.

Genotoxicity - in vivo  Not determined.

Carcinogenicity  Not determined.

Reproductive toxicity
Reproductive toxicity - fertility  Not determined.

Specific target organ toxicity - single exposure
STOT - single exposure  Not determined.

Specific target organ toxicity - repeated exposure
STOT - repeated exposure  Not determined.
ELISA PLASMA SAMPLE DILUENT

Aspiration hazard
Aspiration hazard
Not determined.

General information
Knowledge about health hazard is incomplete.

Inhalation
Moderately irritating.

Ingestion
May cause discomfort if swallowed.

Skin contact
Liquid may irritate skin. May cause sensitisation or allergic reactions in sensitive individuals.

Eye contact
Irritation of eyes and mucous membranes.

Acute and chronic health hazards
May cause sensitisation by skin contact.

Route of exposure
Ingestion. Skin and/or eye contact

Toxicological information on ingredients.

METHYL-2H or METHYL-4 (3:1) Mixture of EC NO 220-239-6

<table>
<thead>
<tr>
<th>Acute toxicity - oral</th>
<th>ATE oral (mg/kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>100.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Acute toxicity - dermal</th>
<th>ATE dermal (mg/kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>300.0</td>
</tr>
</tbody>
</table>

SECTION 12: Ecological Information

Ecotoxicity
There are no data on the ecotoxicity of this product.

12.1. Toxicity

Acute aquatic toxicity
Not determined.

Ecological information on ingredients.

P-TERTIARY-OCTYLPHENOXY POLYETHYL ALCOHOL

<table>
<thead>
<tr>
<th>Acute aquatic toxicity</th>
<th>LE(C)₅₀</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.01 &lt; L(E)C₅₀ ≤ 0.1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>M factor (Acute)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Acute toxicity - fish</th>
<th>LC₅₀, 96 hours: 8.9 mg/l, Fish</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Acute toxicity - aquatic invertebrates</th>
<th>EC₅₀, 48 hours: 26 mg/l, Daphnia magna</th>
</tr>
</thead>
</table>

Chronic aquatic toxicity

<table>
<thead>
<tr>
<th>M factor (Chronic)</th>
<th>10</th>
</tr>
</thead>
</table>

METHYL-2H or METHYL-4 (3:1) Mixture of EC NO 220-239-6

<table>
<thead>
<tr>
<th>Acute aquatic toxicity</th>
<th>LE(C)₅₀</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.001 &lt; L(E)C₅₀ ≤ 0.01</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>M factor (Acute)</th>
<th>100</th>
</tr>
</thead>
</table>
ELISA PLASMA SAMPLE DILUENT

**M factor (Chronic) 100**

12.2. Persistence and degradability

**Persistence and degradability** There are no data on the degradability of this product.

12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** Not determined.

12.4. Mobility in soil

**Mobility** The product is soluble in water.

12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** No information available.

12.6. Other adverse effects

**Other adverse effects** The product contains a substance which may cause long-term adverse effects in the aquatic environment. However, at the concentrations present this product does not need to be classified as hazardous for the environment and the effects are not expected to be significant.

### SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

**General information** Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

### SECTION 14: Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

**Road transport notes** Not classified.

**Rail transport notes** Not classified.

**Sea transport notes** Not classified.

**Air transport notes** Not classified.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards
ELISA PLASMA SAMPLE DILUENT

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user
Not known.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

SECTION 15: Regulatory information

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

Guidance

15.2. Chemical safety assessment
No chemical safety assessment has been carried out.

SECTION 16: Other information

General information
Only trained personnel should use this material.

Revision date
20/09/2018

Revision
5

Supersedes date
09/08/2017

SDS number
10388

Risk phrases in full
R43 May cause sensitisation by skin contact.

Hazard statements in full
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H331 Toxic if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company’s knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.