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

1.1. Product identifier
Product form : Mixture
Product name : ELISA

1.2. Relevant identified uses of the substance or mixture and uses advised against
1.2.1. Relevant identified uses
Use of the substance/mixture : Buffering Agents

1.2.2. Uses advised against
No additional information available

1.3. Details of the supplier of the safety data sheet
Mediagnost Gesellschaft für Forschung und Herstellung von Diagnostica GmbH
Aspenhauser Straße 25
72770 Reutlingen - Deutschland
T +49 (0)7121 51484 0 - F +49 (0)7121 51484 10
contact@mediagnost.de - www.mediagnost.de

1.4. Emergency telephone number
Emergency number : Mediagnost Gesellschaft für Forschung und Herstellung von Diagnostica GmbH
+49 (0) 1757238099

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Not classified

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]
Not classified

Adverse physicochemical, human health and environmental effects
No additional information available

2.2. Label elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP]
EUH phrases :
EUH210 - Safety data sheet available on request
EUH208 - Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) (55965-84-9). May produce an allergic reaction

2.3. Other hazards
No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substance
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Directive 67/548/EEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>sucrose</td>
<td>(CAS no) 57-50-1</td>
<td>&lt; 7</td>
<td>Not classified</td>
</tr>
<tr>
<td>sulphuric acid ... %</td>
<td>(CAS no) 7684-93-9</td>
<td>&lt;= 2</td>
<td>C; R35</td>
</tr>
<tr>
<td>albumins, blood serum</td>
<td>(CAS no) 9048-46-8</td>
<td>&lt;= 1</td>
<td>Xn; R22</td>
</tr>
<tr>
<td>reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1); reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)</td>
<td>(CAS no) 55965-84-9</td>
<td>&lt; 0,0015</td>
<td>T; R23/24/25 C; R34 R43 N: R50/53</td>
</tr>
</tbody>
</table>
**ELISA**

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according to Regulation (EC) No. 453/2010

**24/02/2015 EN (English)**

### Table: Specific concentration limits

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>Specific concentration limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>sulphuric acid ... %</td>
<td>(CAS No) 7664-93-9 (EC no) 231-639-5 (EC index no) 016-020-00-8</td>
<td>(5 &lt;= C &lt; 15) Xi;R36/38 (C &gt;= 15) C;R35</td>
</tr>
<tr>
<td>reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1); reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)</td>
<td>(CAS No) 55965-84-9 (EC index no) 613-167-00-5</td>
<td>(C &gt;= 0.0015) R43 (0.06 &lt;= C &lt; 0.6) Xi;R36/38 (C &gt;= 0.6) C;R34</td>
</tr>
<tr>
<td>sucrose</td>
<td>(CAS No) 57-50-1 (EC no) 200-334-9</td>
<td>&lt; 7 Not classified</td>
</tr>
<tr>
<td>sulphuric acid ... %</td>
<td>(CAS No) 7664-93-9 (EC no) 231-639-5 (EC index no) 016-020-00-8</td>
<td>&lt;= 2 Skin Corr. 1A, H314</td>
</tr>
<tr>
<td>albumins, blood serum</td>
<td>(CAS No) 9048-46-8 (EC no) 232-936-2</td>
<td>&lt;= 1 Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td>reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1); reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)</td>
<td>(CAS No) 55965-84-9 (EC index no) 613-167-00-5</td>
<td>&lt; 0.0015 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H317 Aquatic Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410</td>
</tr>
<tr>
<td>sulphuric acid ... %</td>
<td>(CAS No) 7664-93-9 (EC no) 231-639-5 (EC index no) 016-020-00-8</td>
<td>(5 &lt;= C &lt; 15) Skin Irrit. 2, H315 (5 &lt;= C &lt; 15) Eye Irrit. 2, H319 (C &gt;= 15) Skin Corr. 1A, H314</td>
</tr>
<tr>
<td>reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1); reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)</td>
<td>(CAS No) 55965-84-9 (EC index no) 613-167-00-5</td>
<td>(C &gt;= 0.0015) Skin Sens. 1, H317 (0.06 &lt;= C &lt; 0.6) Skin Irrit. 2, H315 (0.06 &lt;= C &lt; 0.6) Eye Irrit. 2, H319 (C &gt;= 0.6) Skin Corr. 1B, H314</td>
</tr>
</tbody>
</table>

Full text of R- and H-phrases: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- **First-aid measures general**: If you feel unwell, seek medical advice (show the label where possible).
- **First-aid measures after inhalation**: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- **First-aid measures after skin contact**: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- **First-aid measures after eye contact**: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- **First-aid measures after ingestion**: Rinse mouth. Give 2-3 glasses of water to drink.

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

**Symptoms/injuries**: Not expected to present a significant hazard under anticipated conditions of normal use.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- **Unsuitable extinguishing media**: Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

- **Fire hazard**: None known.

#### 5.3. Advice for firefighters

- **Firefighting instructions**: Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.
- **Protection during firefighting**: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures:
Avoid contact with skin.

6.1.1. For non-emergency personnel

Emergency procedures:
Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment:
Equip cleanup crew with proper protection.

Emergency procedures:
Ventilate area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up:
Take up small spills with dry chemical absorbent. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling:
Avoid contact with skin.

Hygiene measures:
When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions:
Store in original container. Store in dry, cool, well-ventilated area. Keep container closed when not in use.

Prohibitions on mixed storage:
Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>sucrase (57-50-1)</th>
<th>Ireland</th>
<th>Local name</th>
<th>Sucrose</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ireland</td>
<td>OEL (8 hours ref) (mg/m³)</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Ireland</td>
<td>OEL (15 min ref) (mg/m³)</td>
<td>20 mg/m³</td>
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<tr>
<td></td>
<td>United Kingdom</td>
<td>OEL (8 hours ref) (mg/m³)</td>
<td>0,05 mg/m³</td>
</tr>
<tr>
<td></td>
<td>United Kingdom</td>
<td>WEL TWA (mg/m³)</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td></td>
<td>United Kingdom</td>
<td>WEL STEL (mg/m³)</td>
<td>20 mg/m³</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>sulphuric acid ... % (7664-93-9)</th>
<th>EU</th>
<th>Local name</th>
<th>Sulphuric acid (mist)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EU</td>
<td>IOELV TWA (mg/m³)</td>
<td>0,05 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Ireland</td>
<td>Local name</td>
<td>Sulphuric acid (mist)</td>
</tr>
<tr>
<td></td>
<td>Ireland</td>
<td>OEL (8 hours ref) (mg/m³)</td>
<td>0,05 mg/m³</td>
</tr>
<tr>
<td></td>
<td>United Kingdom</td>
<td>Local name</td>
<td>Sulphuric acid (mist)</td>
</tr>
<tr>
<td></td>
<td>United Kingdom</td>
<td>WEL TWA (mg/m³)</td>
<td>0,05 mg/m³</td>
</tr>
<tr>
<td></td>
<td>United Kingdom</td>
<td>Remark (WEL)</td>
<td>The mist is defined as the thoracic fraction</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Hand protection:
Wear suitable gloves. Nitrile rubber. The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:
Not required.

Skin and body protection:
Not required.

Respiratory protection:
Not required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:
Liquid
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<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Colour</td>
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</tr>
<tr>
<td>Odour</td>
<td>No data available</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Non flammable</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
</tr>
</tbody>
</table>

### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known.

#### 10.4. Conditions to avoid

No conditions to avoid known.

#### 10.5. Incompatible materials

No incompatible materials known.

#### 10.6. Hazardous decomposition products

No hazardous decomposition products known.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Effect</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

Based on available data, the classification criteria are not met.
Specific target organ toxicity (repeated exposure) : Not classified
Based on available data, the classification criteria are not met

Aspiration hazard : Not classified
Based on available data, the classification criteria are not met

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

12.1. **Toxicity**
No additional information available

12.2. **Persistence and degradability**
No additional information available

12.3. **Bioaccumulative potential**
No additional information available

12.4. **Mobility in soil**
No additional information available

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

12.6. **Other adverse effects**
No additional information available

**SECTION 13: Disposal considerations**

13.1. **Waste treatment methods**
Waste treatment methods : This material and its container must be disposed of in a safe way. Do not empty into drains.
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

**SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. **UN number**
Not regulated for transport

14.2. **UN proper shipping name**
Proper Shipping Name (ADR) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Proper Shipping Name (ADN) : Not applicable
Proper Shipping Name (RID) : Not applicable

14.3. **Transport hazard class(es)**

**ADR**
Transport hazard class(es) (ADR) : Not applicable

**IMDG**
Transport hazard class(es) (IMDG) : Not applicable

**IATA**
Transport hazard class(es) (IATA) : Not applicable

**ADN**
Transport hazard class(es) (ADN) : Not applicable

**RID**
Transport hazard class(es) (RID) : Not applicable

14.4. **Packing group**
Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
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Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

14.5. Environmental hazards
Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

14.6.1. Overland transport

14.6.2. Transport by sea

14.6.3. Air transport

14.6.4. Inland waterway transport
Not subject to ADN : No

14.6.5. Rail transport
Carriage prohibited (RID) : No

14.7. 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

15.1.1. EU-Regulations
No REACH Annex XVII restrictions
Contains no substance on the REACH candidate list

15.1.2. National regulations
No additional information available

15.2. Chemical safety assessment
No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information


Other information : None.

Full text of R-, H- and EUH-phrases:
Acute Tox. 3 (Dermal) Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation) Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral) Acute toxicity (oral), Category 3
Acute Tox. 4 (Oral) Acute toxicity (oral), Category 4
Aquatic Acute 1 Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1 Hazardous to the aquatic environment — Chronic Hazard, Category 1
Skin Corr. 1A Skin corrosion/irritation, Category 1A
Skin Corr. 1B Skin corrosion/irritation, Category 1B
Skin Sens. 1 Sensitisation — Skin, category 1
H301 Toxic if swallowed
H302 Harmful if swallowed
H311 Toxic in contact with skin
H314 Causes severe skin burns and eye damage
H317 May cause an allergic skin reaction
H331 Toxic if inhaled
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects
R22 Harmful if swallowed
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed
R34 Causes burns
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<table>
<thead>
<tr>
<th>R35</th>
<th>Causes severe burns</th>
</tr>
</thead>
<tbody>
<tr>
<td>R43</td>
<td>May cause sensitisation by skin contact</td>
</tr>
<tr>
<td>R50/53</td>
<td>Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment</td>
</tr>
<tr>
<td>C</td>
<td>Corrosive</td>
</tr>
<tr>
<td>N</td>
<td>Dangerous for the environment</td>
</tr>
<tr>
<td>T</td>
<td>Toxic</td>
</tr>
<tr>
<td>Xn</td>
<td>Harmful</td>
</tr>
</tbody>
</table>

**SDS EU (REACH Annex II)**

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.