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

1.1 Product identifier
   Trade name
   Cleaning solution and protein remover, not ready to use
   Order No. 0201-0004-001

1.2 Relevant identified uses of the substance or mixture and uses advised against
   Relevant identified uses of the substance or mixture
   Cleaning of the flowing system for Glucose- and Lactate analyzers:
   BIOSEN, EBI0, ESAT, economic, SUPER GL, GL ambulance, GL easy, G, G1 and G2.

1.3 Details of the supplier of the safety data sheet
   Address
   EKF-diagnostic GmbH
   Ebendorfer Chaussee 3
   D-39179 Barleben
   Telephone no.  +49 (0)3 92 03 / 7 85 - 0
   Fax no.  +49 (0)3 92 03 / 7 85 - 16
   Information provided by / telephone
   EKF-diagnostic GmbH
   Telephone: +49 (0)39203 / 785 - 0 (7 am - 4 pm on workdays)
   Advice on Safety Data Sheet
   support@ekf-diagnostic.de

1.4 Emergency telephone number
   +49 (0) 551 / 19240 Poison Information Centre North(Giftinformationszentrale Nord)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
   Classification in accordance with Directive 67/548/EEC or 1999/45/EC
   Xi; R41
   Xi; R38

2.2 Label elements
   Labelling according to Directive 1999/45/EC
   Hazard symbols

   ![Irritant](image)

   R phrases
   38  Irritating to skin.
   41  Risk of serious damage to eyes.

   S phrases
   26  In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
   37/39  Wear suitable gloves and eye/face protection.

2.3 Other hazards
   No data available.
SECTION 3: Composition/information on ingredients

3.1 Substances
Not applicable. The product is not a substance.

3.2 Mixtures
Chemical characterization
aqueous solution

Hazardous ingredients

<table>
<thead>
<tr>
<th>No</th>
<th>Substance name</th>
<th>CAS / EC / Index / REACH no</th>
<th>Classification 67/548/EEC</th>
<th>Concentration Percentage</th>
<th>%-b.w.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>nonionic tensides</td>
<td>-</td>
<td>Xn; R22</td>
<td>&gt; 10.00 - &lt; 25.00</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-</td>
<td>Xi; R41</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Amphotenside</td>
<td>-</td>
<td>Xi; R36/38</td>
<td>&gt; 1.00 - &lt; 5.00</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-</td>
<td>N; R50</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Full Text for all R-phrases: pls. see section 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General information
In case of persisting adverse effects, consult a physician. Change contaminated, saturated clothing.

After inhalation
Ensure supply of fresh air.

After skin contact
Wash off immediately with soap and water.

After eye contact
Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical assistance.

After ingestion
Rinse out mouth and give plenty of water to drink. Call a doctor.

4.2 Most important symptoms and effects, both acute and delayed
No data available.

4.3 Indication of any immediate medical attention and special treatment needed
No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Extinguishing measures to suit surroundings.

Unsuitable extinguishing media
No data available.

5.2 Special hazards arising from the substance or mixture
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide, carbon dioxide and smoke.
5.3 Advice for firefighters
Use self-contained breathing apparatus. Wear protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
For non-emergency personnel
Refer to protective measures listed in sections 7 and 8.
For emergency responders
No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions
Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up
Pick up with absorbent material (e.g., sand, sawdust, general-purpose binder). Send in suitable containers for recovery or disposal.

6.4 Reference to other sections
No data available.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Advice on safe handling
No special measures necessary.
General protective and hygiene measures
Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Remove soiled or soaked clothing immediately. Wash hands before breaks and after work. Avoid contact with eyes and skin.
Advice on protection against fire and explosion
No special measures necessary.

7.2 Conditions for safe storage, including any incompatibilities
Technical measures and storage conditions
Keep container tightly closed in a well-ventilated place. Keep from freezing.
Requirements for storage rooms and vessels
Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original one.
Advice on storage assembly
Do not store together with foodstuffs.

7.3 Specific end use(s)
No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
No parameters available for monitoring.

8.2 Exposure controls
Appropriate engineering controls
No data available.
Personal protective equipment
Respiratory protection
No special measures required.
Eye / face protection
Tightly fitting safety glasses (EN 166).
Hand protection
Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific workstation suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

- Appropriate Material: butyl rubber
  - Material thickness: 0.7 mm
- Appropriate Material: nitrile rubber
  - Material thickness: 0.4 mm
- Inappropriate material: natural rubber
- Inappropriate material: PVA

Other
Standard laboratory clothing.

Environmental exposure controls
No data available.

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>Form/Colour</td>
<td>liquid</td>
</tr>
<tr>
<td>Odour</td>
<td>mild</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH value</td>
<td>Value 8 Reference temperature 20 °C</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>Value 100 °C</td>
</tr>
<tr>
<td>Melting point / melting range</td>
<td>not determined</td>
</tr>
<tr>
<td>Decomposition point / decomposition range</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>Value &gt; 100 °C</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Remarks Product is not selfigniting.</td>
</tr>
</tbody>
</table>
**Safety data sheet in accordance with 1907/2006/EC**

**Trade name:** Cleaning solution and protein remover, not ready to use

Current version: 3.0.0, issued: 22.03.2013  
Replaced version: 2.0.0, issued: 17.12.2012  
Region: GB

<table>
<thead>
<tr>
<th>Oxidising properties</th>
<th>No data available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Lower flammability or explosive limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper flammability or explosive limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour density</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
</tbody>
</table>

### Density

<table>
<thead>
<tr>
<th>Value</th>
<th>Reference temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.05</td>
<td>20 °C</td>
</tr>
</tbody>
</table>

### Solubility in water

<table>
<thead>
<tr>
<th>Remarks</th>
<th>Completely miscible</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Solubility(ies)</th>
<th>No data available</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Partition coefficient: n-octanol/water</th>
<th>No data available</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Viscosity</th>
<th>No data available</th>
</tr>
</thead>
</table>

### 9.2 Other information

<table>
<thead>
<tr>
<th>Other information</th>
<th>No data available.</th>
</tr>
</thead>
</table>

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Dangerous reactions are not expecting handling the product according to its intended use.

#### 10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

#### 10.3 Possibility of hazardous reactions

None, if handled according to order.

#### 10.4 Conditions to avoid

None, if handled according to order.

#### 10.5 Incompatible materials

None 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><strong>Acute oral toxicity</strong></th>
<th>No data available</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acute dermal toxicity</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Acute inhalational toxicity</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Skin corrosion/irritation</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Serious eye damage/irritation</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Respiratory or skin sensitisation</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Germ cell mutagenicity</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Reproduction toxicity</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Carcinogenicity</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>STOT-single exposure</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>STOT-repeated exposure</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Aspiration hazard</strong></td>
<td>No data available</td>
</tr>
</tbody>
</table>

| **Delayed and immediate effects as well as chronic effects from short and long-term exposure** | Irritating effects on the skin and mucous membrane. Danger of acute eye damage. |

**Other information**

The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (1999/45/EC).
SECTION 12: Ecological information

12.1 Toxicity

<table>
<thead>
<tr>
<th>Fish toxicity</th>
<th>No data available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daphnia toxicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Algae toxicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Bacteria toxicity</td>
<td>No data available</td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability

<table>
<thead>
<tr>
<th>Biodegradability</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>The surfactants contained in this preparation comply with the conditions of biodegradability according to the directive (CE) No. 648/2004 relating to detergents. Documents of confirmation are held at the member states competent authorities' disposal and will be made available to them at their notice or at notice from the detergent producer.</td>
</tr>
</tbody>
</table>

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

12.7 Other information

<table>
<thead>
<tr>
<th>Other information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do not discharge into the drains or waters and do not store on public depositories.</td>
</tr>
<tr>
<td>Ecological data are not available.</td>
</tr>
</tbody>
</table>

SECTION 13: Disposal considerations

13.1 Waste treatment methods

<table>
<thead>
<tr>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company. Concentrate is not allowed to be disposed together with domestic waste. Concentrate is not allowed to be released into the sewerage.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of in agreement with the regional waste disposal company.</td>
</tr>
</tbody>
</table>
SECTION 14: Transport information

14.1 Transport ADR/RID/ADN
The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG
The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA
The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information
No data available.

14.5 Environmental hazards
Information on environmental hazards, if relevant, pls. see 14.1 - 14.3.

14.6 Special precautions for user
No data available.

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

SECTION 15: Regulatory information

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

EU regulations

Restriction of occupation
Adhere to the national sanitary and occupational safety regulations when using this product.

Remarks
Annex I, part 1 + 2: not mentioned. With regard to possibly appropriate decomposition products see Chapter 10.

15.2 Chemical safety assessment
No data available.

SECTION 16: Other information

Sources of key data used to compile the data sheet:
National Threshold Limit Values of the corresponding countries as amended in each case.
Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.
The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Full text of the R-, H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)
R22             Harmful if swallowed.
R36/38           Irritating to eyes and skin.
R50             Very toxic to aquatic organisms.

Department issuing safety data sheet
UMCO Umwelt Consult GmbH
Georg-Wilhelm-Str. 183 , D-21107 Hamburg
Tel.: +49 40 / 79 02 36 300  Fax: +49 40 / 79 02 36 357  e-mail: umco@umco.de

This information is based on our present state of knowledge and experience.
The security data sheet describes products with a view to the security requirements.
However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.
Alterations/supplements:
Alterations to the previous edition are marked in the left-hand margin.