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

1.1 Product identifier

   Trade name

   Chip sensor glucose, Chip sensor lactate

   5130-3011 Chip sensor glucose, type I
   5130-3021 Chip sensor lactate, type I
   5206-3011 Chip sensor glucose, type II
   5206-3029 Chip sensor lactate, type II

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

   Relevant identified uses of the substance or mixture
   Chip sensor in thick film technology used for measurement of glucose or lactate with the BIOSEN-devices (5130 / AutoCal, 5140, C_line and S_line)

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 information
   This product is in the sense of article 3 of the Regulation (EC) 1907/2006 (REACH) an article and not subject to the labelling obligations according to:
   - Art. 1, Regulation (EC) 1272/2008 (CLP);
   To provide a safety data sheet is not mandatory for articles and is done on a voluntary basis.

2.2 Label elements

   Not relevant

2.3 Other hazards

   Please observe the information given in this safety data sheet.

SECTION 3: Composition/information on ingredients

3.1 Substances

   Not applicable. The product is not a substance.

3.2 Mixtures

   Chemical characterization
   Chip sensor
Hazardous ingredients
This product does not contain substances to be mentioned according to EU Regulation No 1907/2006 (REACH), annex II.

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
   Remove affected person from the immediate area. 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.).
   After ingestion
   Seek medical advice immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.

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
   Foam; Carbon dioxide; extinguishing powder; Water spray jet
   Unsuitable extinguishing media
   No data available.

5.2 Special hazards arising from the substance or mixture
   In the event of fire, the following can be released: Carbon dioxide (CO2); Carbon monoxide (CO)

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. Ensure adequate ventilation.
   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
   Take up mechanically. When picked up, treat material as prescribed under heading "Disposal considerations".

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 if stored and handled as prescribed.

General protective and hygiene measures
Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work.

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 and dry in a cool, well-ventilated place.

Requirements for storage rooms and vessels
Keep the product in the original packing.

Advice on storage assembly
None known

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
Safety glasses recommended

Hand protection
Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk 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.

Other
Check suitability of protective clothing for the specific workplace conditions. Chemical resistance of the protective equipment should be discussed with the manufacturer of the protective equipment.

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>Form/Colour</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>solid</td>
<td></td>
</tr>
<tr>
<td>blue; white</td>
<td></td>
</tr>
</tbody>
</table>
Odour
odourless

Odour threshold
No data available

pH value
No data available

Boiling point / boiling range
Not applicable

Melting point / melting range
No data available

Decomposition point / decomposition range
No data available

Flash point
Not applicable
**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 known.

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>Acute oral toxicity</th>
<th>No data available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute dermal toxicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Acute inhalational toxicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>No data available</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>No data available</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>No data available</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Reproduction toxicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>No data available</td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>No data available</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>No data available</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Delayed and immediate effects as well as chronic effects from short and long-term exposure
When handled appropriately adverse health effects are not to be expected.
SECTION 12: Ecological information

12.1 Toxicity

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish toxicity</td>
<td>No data available</td>
</tr>
<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
No data available.

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
Ecological data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging
Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.
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
No data available.

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.

Department issuing safety data sheet
UMCO Umwelt Consult GmbH
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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.