Section 1 - Product and Company Identification

1.1 Manufacturer Information

TEComedical AG, Gewerbestrasse 10, CH-4450 Sissach, Switzerland; Tel. +41 (0)61 985 81 00; Fax +41 (0)61 985 81 09
e-mail: info@tecomedical.com; web: www.tecomedical.com; Tel. SOS 112

1.2 Product Information

Product Name: TECO® Hyaluronic Acid ELISA-Kit (Catalog #: TE1018) **For research use only**

Product form: Mixture (kit)

Intended Use: TECO® Hyaluronic Acid ELISA-Kit is a 96 well, enzyme immunoassay for the quantitative determination of hyaluronic acid in plasma and serum. Do not use for diagnostic purposes.

Components: Microtiter Plate, Sample Diluent, HA Binding Protein-HRP Conjugate, TMB Substrate, Concentrated Wash Buffer, Stop Solution, Standards A → F, Controls 1 and 2, adhesive cover for microtiter plate

Section 2 – Hazards Identification

2.1 Classification according to (EC) No. 1272/2008 (CLP)

Not classified

2.2 Label elements according to (EC) No. 1272/2008

EUH phrases: EUH210 see section 16 for full text

2.3 Other Hazards

This kit contains animal proteins and animal sera and should be treated as a potential biohazard. All animal sera have been tested to ensure the absence of infectious agents, but all materials should be handled as though capable of transmitting infectious disease and disposed of accordingly.

Section 3 – Composition / Information on Ingredients

3.1 Substance

Not applicable

3.2 Mixtures

The hazards identified with this product are those associated with the following component(s)
### Section 4 – First Aid Measures

#### 4.1 Description of first aid measures

**General**
If you feel unwell, ask for medical attention (show the labels where possible).

**After skin contact**
Remove affected clothing and wash all exposed skin area with mild soap and water, followed by a warm water rinse.

**After eye contact**
Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do and continue rinsing.

**After Inhalation**
If breathing becomes difficult, remove victim to fresh air and keep in a rest position comfortable for breathing.

**After Ingestion**
If patient is conscious, wash out mouth with water and give at least 3 – 5 glasses of water to drink. Do not induce vomiting.

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

Not expected to present a significant hazard under anticipated conditions or normal use.

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

No additional information available.
Section 5 – Fire Fighting Measures

5.1 Suitable extinguishing media
Use carbon dioxide, dry chemical powder or appropriate foam. Do not use a heavy water stream.

5.2 Special hazards arising from the substance or mixture
None known

5.3 Advice for fire fighters
Use water spray or fog for cooling exposed containers.
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6 – Accidental Release Measures

6.1 Personal precautions

General measures
Wear appropriate personal protective equipment, including but not limited to protective clothing, safety glasses and protective gloves.

For non-emergency personnel
Evacuate unnecessary personnel

For emergency responders
Equip cleanup team with proper protection and ventilate area

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Prevent any reagents from entering drains and other release to the environment.

6.3 Methods and material for containment and cleaning up
Wipe up liquid spills with absorbent paper. For solid spills, sweep up without raising dust. Once pick up is complete wash site with detergent and water. Decontaminate with a suitable disinfectant solution and keep in suitable, closed containers for disposal.

6.4 Reference to other sections
See sections 8 and 13.

Section 7 – Handling and Storage

7.1 Precautions for safe handling
Material of human origin has been tested and found non-reactive for HIV 1 and 2 and HCV antibodies and HBsAg. All animal sourced material has been obtained from animals certified as healthy and free from disease. However, all potentially biohazardous components should be considered as potentially infectious. Level II containment should be applied.

Do not eat, drink or smoke in the laboratory. Do not pipette by mouth. Avoid inhalation. Avoid skin and eye contact. Wear appropriate protective clothing as described in subsection 8.2. Avoid the use of needles or other sharp implements. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Avoid release into drains; in case of accidental spillage, refer to section 6.
7.2 Conditions for safe storage, including any incompatibilities

Store in original container and keep containers tightly closed when not in use. Store in a dry place in the box supplied at a temperature between +2 and +8°C.

7.3 Specific end use(s)

The TECO® Hyaluronic ELISA-Kit is intended for professional used only and to be used solely for the purpose as specified in subsection 1.2. Refer to kit instructions for details.

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**Section 8 – Exposure Controls and Personal Protection**

8.1 Control parameters

No occupational exposure limits exist for any kit components. However, the following limits apply to component ingredients: hydrochloric acid (see subsection 3.2 for components containing these substances):

<table>
<thead>
<tr>
<th>Hydrochloric acid: CAS number 7647-01-0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control Parameters</td>
</tr>
<tr>
<td>---------------------</td>
</tr>
<tr>
<td>TWA</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>TWA</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

8.2 Exposure controls

The following controls should be followed as appropriate to the situation and the quantities handled.

**Hand protection**
Wear suitable gloves (nitrile rubber). The exact break through time has to be provided by the manufacturer of the gloves and has to be observed.

**Hygiene measures**
General laboratory practice (see section 7).

**Respiratory protection**
Not required

**Eye protection**
Not required

**Skin and body protection**
Not required

**Other equipment**
Eye bath and safety shower
Section 9 – Physical and Chemical Properties

9.1 Information on the basic physical and chemical properties

<table>
<thead>
<tr>
<th>Kit component</th>
<th>Appearance</th>
<th>Odor</th>
<th>pH</th>
<th>Solubility in Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microtiter Plate</td>
<td>Colorless polystyrene microplate</td>
<td>None</td>
<td>~8.2</td>
<td>Not soluble</td>
</tr>
<tr>
<td>Sample Diluent</td>
<td>red liquid</td>
<td>None</td>
<td>~8.2</td>
<td>Soluble</td>
</tr>
<tr>
<td>HA Binding Protein-HRP Conjugate</td>
<td>Amber orange liquid</td>
<td>None</td>
<td>~6.1</td>
<td>Soluble</td>
</tr>
<tr>
<td>TMB Substrate</td>
<td>Colorless to slight blue liquid</td>
<td>None</td>
<td>~3.7</td>
<td>Soluble</td>
</tr>
<tr>
<td>Concentrated Wash Buffer</td>
<td>Colorless liquid</td>
<td>None</td>
<td>~7.1</td>
<td>Soluble</td>
</tr>
<tr>
<td>Stop Solution (1M HCl)</td>
<td>Colorless liquid</td>
<td>None</td>
<td>&lt;1.0</td>
<td>Soluble</td>
</tr>
<tr>
<td>Standards and Controls</td>
<td>Colorless to pale yellow</td>
<td>None</td>
<td>~7.4</td>
<td>Soluble</td>
</tr>
</tbody>
</table>

There is no information available for the following categories: odor threshold, melting/freezing point, initial boiling point/boiling range, flash point, evaporation rate, flammability (solid, gas), upper/lower flammability or explosive limits, vapor pressure, vapor density, relative density, partition coefficient, auto ignition temperature decomposition temperature, viscosity, explosive properties or oxidizing properties.

9.2 Other information

All liquid components are miscible with water in all proportions.

Section 10 – Stability and Reactivity

10.1 Reactivity

No dangerous reactions known under normal conditions or use

Hydrochloric acid has a corrosive effect. There is no data available on the other substances.

10.2 Chemical stability

All components have been found stable for stated shelf life when stored under the conditions as recommended in section 7.

10.3 Possibility of hazardous reactions

No hazardous reactions known for kit components although, hazardous reactions occur for the following substances listed in subsection 3.2:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Hazardous Reaction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric acid</td>
<td>Violent reactions possible with acetonitrile, organic nitro compounds, potassium permanganate, metal halogenates, perchlorates and alkali metals. Contact with metals liberates toxic gas.</td>
</tr>
</tbody>
</table>

10.4 Conditions to avoid

No conditions to avoid known
10.5 Incompatible materials
No incompatible materials known

10.6 Hazardous decomposition products
No decomposition products are formed if kit is stored and used under the specified storage and handling conditions

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Section 11 – Toxicological Information

11.1 Information on toxicological effects

TMB (S)
3,3′,5,5′-Tetramethylbenzidine: CAS no 54827-17-7 toxicological information

- LD50 Intraperitoneal Mouse: 135 mg/kg
- LD50 Oral Quail: >316 mg/kg

Stop Solution
1M HCl: CAS no 7647-01-0 toxicological information

- Acute toxicity: no data available
- Skin corrosion/irritation: no data available
- Serious eye damage/eye irritation: no data available
- Respiratory or skin sensitization: no data available
- Germ cell mutagenicity: no data available
- Carcinogenicity: IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Hydrochloric acid)
- Reproductive toxicity: no data available
- Specific target organ toxicity - single exposure: no data available
- Specific target organ toxicity - repeated exposure: no data available
- Aspiration hazard: no data available

11.2 Route of Exposure

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through skin.

Eye Contact: Causes eye burns.

Ingestion: May be harmful if swallowed

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

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Section 12 – Ecological Information

12.1 Toxicity
No 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. It is, however, recommended that reagents do not enter drains in large quantities.

Section 13 – Disposal Considerations

13.1 Waste treatment methods
Waste residues: human origin wastes must be disposed of in conformity with existing local regulations.
Soiled packaging: Dispose of in accordance with existing regulations. Contaminated containers must be treated the same way as the respective chemicals. Waste material packaging code (2001/118/EC): 15 01 10 (packaging containing of or contaminated by dangerous substances).

Section 14 – Transportation Information

This product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).
Transport of this product can be carried out at ambient temperature but in the event of delays store at 2 – 8°C with all reagents contained within the packaging provided.

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
Not applicable.

14.6 Special precautions for user
See sections 6 to 8.

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.
Not known
15.2 Chemical safety assessment

No chemical safety assessment has been carried out for the substances of the mixture by the supplier.

Section 16 – Other Information

General
This MSDS has been compiled in accordance with Commission Regulation (EU) No. 453/2010.

Full text of H and EUH statements

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H290</td>
<td>May be corrosive to metals</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>H410</td>
<td>Very toxic to aquatic life with long lasting effects</td>
</tr>
</tbody>
</table>

EUH210 Safety data sheet available on request

Abbreviations

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>STOT</td>
<td>Special Target Organ Toxicity</td>
</tr>
</tbody>
</table>

Disclaimer

For research use only!

The above information is believed to be correct but does not purport to be all-inclusive and is provided for guidance only. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. TEComedical AG shall not be held liable for any damage or injury resulting from handling or from contact with the above product and assumes no responsibility to the accuracy or completeness of the data contained herein. It is the responsibility of the purchaser to ensure that laboratory workers who use this product are aware of its hazards and take all necessary precautions to prevent contact, ingestion, inhalation or any other mode of exposure.