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

1.1 Product identifier
- Trade name: BIOMIMESYS® LIVER

1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.

1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: HCS Pharma
- 250 rue Salvador Allende, 59120 LOOS
- tel: +33(0)9 72 44 83 88
- Mail: hello@biomimesys.com

1.4 Emergency telephone number:
- France (ORFILA 24h/24) - Tel : +33 (0)1 45 42 59 59
- Ireland - Tel : 00 353 1 8092568 - 00 353 1 8379964 (24h/24)
- UK : +44 (0)-870-190-6777 (CARECHEM24)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008: The product is not classified according to the CLP regulation.

2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008 Not classified as hazardous for transport
- Hazard pictograms Not classified as hazardous for transport
- Signal word Not classified as hazardous for transport
- Hazard statements Not classified as hazardous for transport

2.3 Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures
- Description: Mixture: consisting of the following components.
- Dangerous components: Not classified as hazardous for transport
- Other components:
Trade name: BIOMIMESYS® Adipose tissue

<table>
<thead>
<tr>
<th>CAS: 9067-32-7</th>
<th>SODIUM HYALURONATE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TAIL RAT TYPE I COLLAGEN-SOLUTION</td>
</tr>
</tbody>
</table>

- Additional information: For the wording of the listed risk phrases, refer to section 16

### SECTION 4: First aid measures

**4.1 Description of first aid measures**
- General information: No special measures required.
- After excessive inhalation: Provide fresh air; consult a doctor in case of medical complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult a doctor.

**4.2 Most important symptoms and effects, both acute and delayed:**
No further relevant information available.

**4.3 Indication of any immediate medical attention and special treatment needed:**
No further relevant information available.

### SECTION 5: Firefighting measures

**5.1 Suitable extinguishing agents:**
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**5.2 Special hazards arising from the substance or mixture:**
No further relevant information available.

**5.3 Advice for firefighters**
- Protective equipment: No special measures required.

### SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures:**
Not required.

**6.2 Environmental precautions:**
Do not allow the product to enter sewers/surface water or ground water.

**6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

**6.4 Reference to other sections:**
See Section 7 for information on safe handling.
See Section 8 for information on personal protective equipment.
See Section 13 for disposal information.

### SECTION 7: Exposure controls/personal protection

**7.1 Precautions for safe handling:**
No special measures required.

**7.2 Information about fire - and explosion protection:**
No special measures required.
**SECTION 8: Handling and storage**

- Additional information about design of technical facilities: No further data; see section 7.

**8.1 Control parameters**
- Ingredients with limit values that require monitoring at the workplace:
  The product does not contain any significant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information:
  The most current valid lists have been used as a basis for the production of this document.

**8.2 Exposure controls**
- Personal protective equipment:
- General protective and hygienic measures:
  The usual precautionary measures are to be adhered to when handling chemicals.
- Respiratory protection: Not required.
- Protection of hands: Not required.
- Gloves material:
  The selection of suitable gloves does not depend only on the material, but also on further marks of quality which may vary from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked before use.
- Eye protection: Goggles recommended during refilling

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**
- General Information
- Appearance:
  - Form: lyophilized
  - Colour: According to product specification
- Odour:
- Odour threshold:
- pH-value:
- Change in condition
- Melting point/Melting range: Undetermined.
- Boiling point/Boiling range: Undetermined.
- Flash point:
- Flammability (solid, gaseous): Not applicable.
- Ignition temperature:
- Decomposition temperature:
- Not applicable.
Trade name: BIOMIMESYS® Adipose tissue

- **Self-igniting:** Product is not self igniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
  - **Lower:** Not determined.
  - **Upper:** Not determined.
- **Vapour pressure:** Not determined.
- **Density:** Not determined.
- **Relative density:** Not determined.
- **Vapour density:** Not determined.
- **Evaporation rate:** Not determined.
- **Solubility in / Miscibility with water:** Insoluble.
- **Segregation coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - **Dynamic:** Not determined.
  - **Kinematic:** Not determined.

9.2 **Other information:** No further relevant information available.

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**SECTION 10: Stability and reactivity**

10.1 **Reactivity** No further relevant information available.
10.2 **Chemical stability**
  - **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
10.3 **Possibility of hazardous reactions** No dangerous reactions known.
10.4 **Conditions to avoid** No further relevant information available.
10.5 **Incompatible materials** No further relevant information available.
10.6 **Hazardous decomposition products** No dangerous decomposition products known

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**SECTION 11: Toxicological information**

11.1 **Information on toxicological effects**
  - **Acute toxicity**
  - **Primary irritant effect:**
  - **On the skin:** Based on available data, the classification criteria are not met.
  - **On the eyes:** Based on available data, the classification criteria are not met.
  - **Respiratory or skin sensitization:** Based on available data, the classification criteria are not met.
  - **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
  - **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
  - **Carcinogenicity:** Based on available data, the classification criteria are not met.
  - **Reproductive toxicity:** Based on available data, the classification criteria are not met.
  - **STOT-single exposure:** Based on available data, the classification criteria are not met.
  - **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
  - **Aspiration hazard:** Based on available data, the classification criteria are not met.
SECTION 12: Ecological information

12.1 Toxicity
· Aquatic toxicity: No further relevant information available.
12.2 Persistence and degradability: No further relevant information available.
12.3 Bioaccumulative potential: No further relevant information available.
12.4 Mobility in soil: No further relevant information available.
· Additional ecological information:
· General notes:
  Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
  Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
12.5 Results of PBT and vPvB assessment
· PBT: Not applicable.
· vPvB: Not applicable.
12.6 Other adverse effects: No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation: Smaller quantities can be disposed of with household waste.

Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN-Number
· ADR, ADN, IMDG, IATA: Not classified as hazardous for transport
14.2 UN proper shipping name
· ADR, ADN, IMDG, IATA: Not classified as hazardous for transport
14.3 Transport hazard class(es)
· ADR, IMDG, IATA: Not classified as hazardous for transport
· Class: Not classified as hazardous for transport
14.4 Packing group
· ADR, IMDG, IATA: Not classified as hazardous for transport
14.5 Environmental hazards:
· Not applicable.
14.6 Special precautions for user
· Not applicable.
14.7 Transport in bulk according to Annex II of
· Marpol and the IBC Code: Not applicable.
· UN "Model Regulation": Not classified as hazardous for transport

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
· Directive 2012/18/EU
· Named dangerous substances - ANNEX I None of the ingredients is listed.
15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IGHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative