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

- **Product identifier**
  - Trade name: **MSCgo™ Chondrogenic supplement mix**
  - Article number: 05-221-1

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

- **Application of the substance / the mixture**
  - MSCgo™ Chondrogenic Differentiation Medium is a serum-free (SF) and xeno-free (XF) formulation developed for optimal differentiation of human mesenchymal stem cells (hMSC) to mature chondrocytes. The MSCgo™ Chondrogenic Differentiation Medium kit includes a basal medium and supplement, containing all growth factors and supplements necessary for a complete chondrogenic differentiation medium.

- **Details of the supplier of the safety data sheet**
  - Manufacturer/Supplier: Biological Industries Israel Beit Haemek Ltd.
  - BEIT HAEMEK 2511500
  - ISRAEL
  - Michal.badihi@sartorius.com

- **Further information obtainable from:** Product safety department.
- **Emergency telephone number:** During normal opening times: +972/4/9962467

2 Hazards identification

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

- **Label elements**
  - **Labelling according to Regulation (EC) No 1272/2008 Void**
  - **Hazard pictograms Void**
  - **Signal word Void**
  - **Hazard statements Void**
  - **Other hazards**
  - **Results of PBT and vPvB assessment**
    - **PBT:** Not applicable.
    - **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterisation:** Mixtures
  - **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:** Void

- **Additional information:**
  - All other ingredients in the proportions used are considered non-hazardous by regulating bodies worldwide.

4 First aid measures

- **Description of first aid measures**
  - **General information:** No special measures required.
  - **After inhalation:** Supply fresh air; consult doctor in case of complaints.
  - **After skin contact:** Generally the product does not irritate the skin.

(Contd. on page 2)
5 Firefighting measures

- **Extinguishing media**
  - Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards arising from the substance or mixture**
  - No further relevant information available.
- **Advice for firefighters**
  - No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
  - Not required
- **Environmental precautions**
  - Not required
- **Methods and material for containment and cleaning up**
  - No special measures required.
- **Reference to other sections**
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.

7 Handling and storage

- **Handling**
  - No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection**
  - No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
  - Requirements to be met by storerooms and receptacles: (-10)-(-20) °C
  - Information about storage in one common storage facility: Not required
  - Further information about storage conditions: Not required
  - Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities**
  - No further data; see item 7.
- **Control parameters**
  - Ingredients with limit values that require monitoring at the workplace:
    - The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
  - **Additional information**
    - The lists valid during the making were used as basis.
### Safety data sheet

according to 1907/2006/EC, Article 31

**Trade name:** MSCgo™ Chondrogenic supplement mix

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#### Exposure controls

- **General protective and hygienic measures:**
  
  The usual precautionary measures are to be adhered to when handling chemicals.

- **Protection of hands:**
  
  The glove material has to be impermeable and resistant to the product/substance/preparation.
  
  Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
  
  Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**
  
  The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies 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 prior to the application.

- **Penetration time of glove material**
  
  The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Safety glasses

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#### 9 Physical and chemical properties

<table>
<thead>
<tr>
<th>Information on basic physical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Information</strong></td>
</tr>
<tr>
<td><strong>Appearance:</strong></td>
</tr>
<tr>
<td>Form: Solution</td>
</tr>
<tr>
<td>Colour: Colorless</td>
</tr>
<tr>
<td>Odour: Uncharacteristic</td>
</tr>
<tr>
<td>Odour threshold: Not determined.</td>
</tr>
<tr>
<td>pH-value at 20 °C: 6.5–7.5</td>
</tr>
<tr>
<td>Change in condition</td>
</tr>
<tr>
<td>Melting point/freezing point: Undetermined.</td>
</tr>
<tr>
<td>Initial boiling point and boiling range: 100 °C</td>
</tr>
<tr>
<td>Flash point: Not applicable.</td>
</tr>
<tr>
<td>Flammability (solid, gas): Not applicable.</td>
</tr>
<tr>
<td>Decomposition temperature: Not determined.</td>
</tr>
<tr>
<td>Auto-ignition temperature: Product is not self-igniting.</td>
</tr>
<tr>
<td>Explosive properties: Product does not present an explosion hazard.</td>
</tr>
</tbody>
</table>

| Explosion limits:                                   |
| Lower: Not determined.                              |
| Upper: Not determined.                              |

| Vapour pressure at 20 °C: 23 hPa                    |
| Density: Not determined.                            |
| Relative density: Not determined.                   |
| Vapour density: Not determined.                     |

(Contd. on page 4)
Trade name: MSCgo™ Chondrogenic supplement mix

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaporation rate</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Solubility in / Miscibility with water</td>
<td>Fully miscible.</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Viscosity: Dynamic</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Viscosity: Kinematic</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Solvent content: Organic solvents</td>
<td>0.0 %</td>
</tr>
<tr>
<td>Solvent content: Water</td>
<td>&gt;90.0 %</td>
</tr>
<tr>
<td>Solvent content: VOC (EC)</td>
<td>&lt;0.1 %</td>
</tr>
<tr>
<td>Solids content</td>
<td>&lt;10.0 %</td>
</tr>
<tr>
<td>Other information</td>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>

10 Stability and reactivity
- Reactivity: No further relevant information available.
- Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions: No dangerous reactions known.
- Conditions to avoid: No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information
- Information on toxicological effects
- Acute toxicity: Based on available data, the classification criteria are not met.
- Primary irritant effect:
- Skin corrosion/irritation: Based on available data, the classification criteria are not met.
- Serious eye damage/irritation: Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction): Based on available data, the classification criteria are not met.
- 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.

12 Ecological information
- Toxicity
- Aquatic toxicity: Not toxic to the aquatic life
- Persistence and degradability: No further relevant information available.
Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 26.03.2020 Revision 1 Revision date: 24.03.2020

Trade name: MSCgo™ Chondrogenic supplement mix

- Behaviour in environmental systems:
  - Bioaccumulative potential: No further relevant information available.
  - 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.
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.
- Other adverse effects: No further relevant information available.

13 Disposal considerations

- Waste treatment methods
  - Recommendation: No special recommendation.
- Uncleaned packaging:
  - Recommendation: Disposal must be made according to official regulations.

14 Transport information

- UN-Number
  - ADR, IMDG, IATA: not regulated.
- UN proper shipping name
  - ADR, IMDG, IATA: not regulated.
- Transport hazard class(es)
  - ADR, ADN, IMDG, IATA: not regulated.
- Packing group
  - ADR, IMDG, IATA: not regulated.
- Environmental hazards:
  - Not applicable.
- Special precautions for user
  - Not applicable.
- Transport in bulk according to Annex II of Marpol and the IBC Code
  - Not applicable.
- UN "Model Regulation":
  - not regulated.

15 Regulatory information

- 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.
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.
- Department issuing SDS: Product safety department.
- Contact: Ms. BADICHI GITLIN
- Abbreviations and acronyms:
  - ADR: Accord européen sur le transport des marchandises dangereuses par Rout (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - GHS: 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)
  - VOC: Volatile Organic Compounds (USA, EU)
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative