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

- Product identifier
  - Trade name: MSCgo™ Chondrogenic Basal Medium
  - Article number: 05-220-1

- 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.

(Contd. on page 2)
5 Firefighting measures

- Extinguishing media
  Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- Special hazards arising from the substance or mixture: No further relevant information available.
- Advice for firefighters
  Protective equipment: 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
  Precautions for safe 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: 2°C-8°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.
· **Exposure controls**

**Personal protective equipment:**

**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 break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Safety glasses

---

### 9 Physical and chemical properties

**Information on basic physical and chemical properties**

**General Information**

**Form:** Solution

**Colour:** Red

**Odour:** Uncharacteristic.

**Odour threshold:** Not determined.

**pH-value at 20 °C:** 7-7.5

**Change in condition**

**Melting point/freezing point:** 0 °C

**Initial boiling point and boiling range:** 100 °C

**Flash point:** Not applicable.

**Flammability (solid, gas):** Not applicable.

**Decomposition temperature:** Not determined.

**Auto-ignition temperature:** Product is not self-igniting.

**Explosive properties:** Product does not present an explosion hazard.

**Explosion limits:**

Lower: Not determined.

Upper: Not determined.

**Vapour pressure at 20 °C:** 23 hPa

**Density at 20 °C:** 1.00584 g/cm³

**Relative density**

Not determined.

**Vapour density**

Not determined.
Safety data sheet according to 1907/2006/EC, Article 31

Trade name: MSCgo™ Chondrogenic Bazal Medium

51.0

- Evaporation rate Not determined.
- Solubility in / Miscibility with water: Fully miscible.
- Partition coefficient: n-octanol/water: Not determined.
- Viscosity:
  - Dynamic at 20 °C: 0.952 mPas
  - Kinematic: Not determined.
- Solvent content:
  - Organic solvents: 0.0 %
  - Water: >95.0 %
  - VOC (EC) 0.00 %
- Solids content: <5.0 %
- Other information No further relevant information available.

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)
- 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

Trade name: MSCgo™ Chondrogenic Bазal Medium

- Behaviour in environmental systems:
  - Bioaccumulative potential: No further relevant information available.
  - Mobility in soil: No further relevant information available.
- Additional ecological information:
  - General notes: Not hazardous for water.
  - 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.
  - Recommended cleansing agents: Water, if necessary together with cleansing agents.

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
  - Class: 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. BÄDICHI GITLIN
- **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
  - 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