1 Identification

- Product identifier
- Trade name: NutriVero™ FLEX 10
- Article number: 05-068-1
- CAS Number: 7732-18-5
- EC number: 231-791-2

- Application of the substance / the mixture
NutriVero™ Flex 10 is a chemically defined, serum-free and animal component-free medium (does not contain plant extract or animal components), designed to support the growth of vero cells.

- 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
- Information department: Product safety department.
- Emergency telephone number: During normal opening times: +972/4/9962467

2 Hazard(s) identification

- Classification of the substance or mixture
The substance is not classified, according to the Globally Harmonized System (GHS).

- Label elements
- GHS label elements Void
- Hazard pictograms Void
- Signal word Void
- Hazard statements Void
- Classification system:
- NFPA ratings (scale 0 - 4)
  Health = 0
  Fire = 0
  Reactivity = 0
- HMIS-ratings (scale 0 - 4)
  HEALTH
  Health = 0
  FIRE
  Fire = 0
  REACTIVITY
  Reactivity = 0

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

3 Composition/information on ingredients

- Chemical characterization: Substances
- CAS No. Description
  7732-18-5 water, distilled, conductivity or of similar purity
Trade name: NutriVero™ FLEX 10

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.
  - After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Wash mouth with water if person is conscious and seek medical advice.
- Information for doctor:
  - Most important symptoms and effects, both acute and delayed: No further relevant information available.
  - Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
  - Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- 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: No special measures 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 protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities
- Storage:
  - Requirements to be met by storerooms and receptacles: 2-8°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 systems: No further data; see item 7.

- Control parameters

- Components with limit values that require monitoring at the workplace: Not required.

- Additional information: The lists that were valid during the creation were used as basis.

- Exposure controls

- Personal protective equipment:
  - General protective and hygienic measures:
    The usual precautionary measures for handling chemicals should be followed.
  - Breathing equipment: Not required
  - Protection of hands:
    The glove material has to be impermeable and resistant to the product/ the substance/ the 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.
  - 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

- Appearance:
  - Form: Solution
  - Color: Red
  - Odor: uncharacteristic
  - Odor threshold: Not determined.

- pH-value: Not applicable.

- Change in condition
  - Melting point/Melting range: 0 °C (32 °F)
  - Boiling point/Boiling range: 100 °C (212 °F)

- Flash point: Not applicable.

- Flammability (solid, gaseous): Not applicable.

- Decomposition temperature: Not determined.

- Auto igniting: Not determined.

- Danger of explosion: Product does not present an explosion hazard.

- Explosion limits:
  - Lower: Not determined.
Trade name: NutriVero™ FLEX 10

Upper:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapor pressure at 20 °C (68 °F):</td>
<td>23 hPa (17.3 mm Hg)</td>
</tr>
<tr>
<td>Density at 20 °C (68 °F):</td>
<td>1 g/cm³ (8.345 lbs/gal)</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not determined.</td>
</tr>
<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:</td>
<td></td>
</tr>
<tr>
<td>Dynamic at 20 °C (68 °F):</td>
<td>0.952 mPas</td>
</tr>
<tr>
<td>Kinematic:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Organic solvents:</td>
<td>0.0 %</td>
</tr>
<tr>
<td>Water:</td>
<td>&gt;98.0 %</td>
</tr>
<tr>
<td>VOC content:</td>
<td>0.00 %</td>
</tr>
<tr>
<td>Solids content:</td>
<td>&lt;2.0 %</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:
- Primary irritant effect:
  - on the skin: No irritant effect.
  - on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
  When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. The substance is not subject to classification.
- Carcinogenic categories
- IARC (International Agency for Research on Cancer)
  None of the ingredients is listed.
Trade name: NutriVero™ FLEX 10

12 Ecological information

- Toxicity
  - Aquatic toxicity: Not toxic to the aquatic life
  - Persistence and degradability: No further relevant information available.
  - Behavior 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 packagings:
  - Recommendation: Disposal must be made according to official regulations.

14 Transport information

- UN-Number
  - DOT, ADN, IMDG, IATA: Not regulated
- UN proper shipping name
  - DOT, ADN, IMDG, IATA: Not regulated
- Transport hazard class(es)
  - DOT, ADN, IMDG, IATA
  - Class: Not regulated
- Packing group
  - DOT, IMDG, IATA: Not regulated
- Environmental hazards:
  - Marine pollutant: No
- Special precautions for user
  - Not applicable.
- Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
  - Not applicable.
Trade name: NutriVero™ FLEX 10

· UN "Model Regulation": not regulated

15 Regulatory information
· Safety, health and environmental regulations/legislation specific for the substance or mixture
  · Sara
    · Section 355 (extremely hazardous substances):
      None of the ingredients is listed.
    · Section 313 (Specific toxic chemical listings):
      None of the ingredients is listed.
  · TSCA (Toxic Substances Control Act):
    ACTIVE
    · Hazardous Air Pollutants
      10102-18-8 sodium selenite
    · Proposition 65
      · Chemicals known to cause cancer:
        None of the ingredients is listed.
      · Chemicals known to cause reproductive toxicity for females:
        None of the ingredients is listed.
      · Chemicals known to cause reproductive toxicity for males:
        None of the ingredients is listed.
      · Chemicals known to cause developmental toxicity:
        None of the ingredients is listed.
    · Carcinogenic categories
      · EPA (Environmental Protection Agency)
        10102-18-8 sodium selenite
      · TLV (Threshold Limit Value established by ACGIH)
        None of the ingredients is listed.
      · NIOSH-Ca (National Institute for Occupational Safety and Health)
        None of the ingredients is listed.
    · GHS label elements Void
    · Hazard pictograms Void
    · Signal word Void
    · Hazard statements Void
    · 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
**Safety Data Sheet**  
acc. to OSHA HCS  
Revision 1  
Reviewed on 03/24/2020

**Trade name:** NutriVero™ FLEX 10

<table>
<thead>
<tr>
<th>Abbreviations and acronyms:</th>
</tr>
</thead>
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<tr>
<td>IMDG: International Maritime Code for Dangerous Goods</td>
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<tr>
<td>DOT: US Department of Transportation</td>
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<td>IATA: International Air Transport Association</td>
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<tr>
<td>ACGIH: American Conference of Governmental Industrial Hygienists</td>
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<tr>
<td>EINECS: European Inventory of Existing Commercial Chemical Substances</td>
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<tr>
<td>CAS: Chemical Abstracts Service (division of the American Chemical Society)</td>
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<td>NFPA: National Fire Protection Association (USA)</td>
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<td>HMIS: Hazardous Materials Identification System (USA)</td>
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<tr>
<td>VOC: Volatile Organic Compounds (USA, EU)</td>
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<td>PBT: Persistent, Bioaccumulative and Toxic</td>
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<td>vPvB: very Persistent and very Bioaccumulative</td>
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<tr>
<td>NIOSH: National Institute for Occupational Safety</td>
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<tr>
<td>OSHA: Occupational Safety &amp; Health</td>
</tr>
<tr>
<td>TLV: Threshold Limit Value</td>
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<tr>
<td>PEL: Permissible Exposure Limit</td>
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<tr>
<td>REL: Recommended Exposure Limit</td>
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</tbody>
</table>

(Date of preparation / last revision) 03/24/2020