1 Identification

- **Product identifier**
  - Trade name: RepSox/Alk5i
  - Article number: SM-0006-0010
  - CAS Number: 446859-33-2

- **Details of the supplier of the safety data sheet**
  - Manufacturer/Supplier: Biological Industries Israel Beit Haemek Ltd.
    BEIT HAEMEK 25115
    ISRAEL
    michalb@bioind.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**
  - GHS06 Skull and crossbones
  - Acute Tox. 3 H301 Toxic if swallowed.

- **Label elements**
  - GHS label elements
    The substance is classified and labeled according to the Globally Harmonized System (GHS).
  - Hazard pictograms

- **Signal word** Danger

- **Hazard statements**
  - Toxic if swallowed.

- **Precautionary statements**
  - Wash thoroughly after handling.
  - Do not eat, drink or smoke when using this product.
  - If swallowed: Immediately call a poison center/doctor.
  - Specific treatment (see on this label).
  - Rinse mouth.
  - Store locked up.
  - Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**
  - Health = 2
  - Fire = 0
  - Reactivity = 0

(Contd. on page 2)
Safety Data Sheet
acc. to OSHA HCS

Trade name: RepSox/Alk5i

- HMIS-ratings (scale 0 - 4)
  - Health = 2
  - Fire = 0
  - 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
    - 446859-33-2 RepSox/Alk5i
  - Additional information: Formula C17H13N5

4 First-aid measures

- Description of first aid measures
  - General information:
    - Immediately remove any clothing soiled by the product.
    - In case of irregular breathing or respiratory arrest provide artificial respiration.
  - After inhalation: In case of unconsciousness place patient stably in side position for transportation.
  - After skin contact: Immediately wash with water and soap and rinse thoroughly.
  - After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
  - After swallowing: Do not induce vomiting; immediately call for medical help.

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: During combustion, may emit irritant fumes.
  - Advice for firefighters: Wear self-contained breathing apparatus and protective clothing.
  - Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures: Not required
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
  - No special measures required.
  - Dispose contaminated material as waste according to item 13.

(Contd. on page 3)
7 Handling and storage

- **Handling:**
  - **Precautions for safe handling:** Avoid inhalation, contact with eyes and skin. Avoid dust and aerosol formation. Use only in areas with appropriate exhaust ventilation.
  - **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:** -20 °C
  - **Information about storage in one common storage facility:** Keep container tightly sealed in cool, well-ventilated area. Keep away from direct sunlight and sources of ignition.
  - **Further information about storage conditions:** None.
  - **Shipping at room temperature if less than 2 weeks.**
- **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:** Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Avoid contact with the eyes and skin.
  - **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.
9 Physical and chemical properties

- Information on basic physical and chemical properties
  - General Information
    - Appearance:
      - Form: Powder
      - Color: Light yellow to yellow
      - Odor: No data available
      - Odor threshold: Not determined.
    - pH-value: Not applicable.
  - Change in condition
    - Melting point/Melting range: Undetermined.
    - Boiling point/Boiling range: Undetermined.
  - 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.
  - Upper: Not determined.
- Vapor pressure: Not determined.
- Density: Not determined.
- Relative density: Not determined.
- Vapor density: Not determined.
- Evaporation rate: Not determined.
- Solubility in / Miscibility with Water: Not determined.
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity:
  - Dynamic: Not determined.
  - Kinematic: Not determined.
- 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.
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:
  - Carcinogenic categories: IARC (International Agency for Research on Cancer) Substance is not listed. NTP (National Toxicology Program) Substance is not listed. OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

12 Ecological information

- Toxicity
  - Aquatic toxicity: No further relevant information available.
- 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:
    Water hazard class 3 (Self-assessment): extremely hazardous for water
    Do not allow product to reach ground water, water course or sewage system, even in small quantities.
    Danger to drinking water if even extremely small quantities leak into the ground.
  - 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:
    Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packagings:
  - Recommendation: Disposal must be made according to official regulations.
### 14 Transport information

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>· UN-Number</td>
<td>DOT, IMDG, IATA not regulated</td>
</tr>
<tr>
<td>· UN proper shipping name</td>
<td>DOT, IMDG, IATA not regulated</td>
</tr>
<tr>
<td>· Transport hazard class(es)</td>
<td>DOT, ADN, IMDG, IATA not regulated</td>
</tr>
<tr>
<td>· Packing group</td>
<td>DOT, IMDG, IATA not regulated</td>
</tr>
<tr>
<td>· Environmental hazards:</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>· Special precautions for user</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>· UN &quot;Model Regulation&quot;:</td>
<td>not regulated</td>
</tr>
</tbody>
</table>

### 15 Regulatory information

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>· Safety, health and environmental regulations/legislation specific for the substance or mixture</td>
<td></td>
</tr>
<tr>
<td>· Sara</td>
<td></td>
</tr>
<tr>
<td>· Section 355 (extremely hazardous substances): Substance is not listed.</td>
<td></td>
</tr>
<tr>
<td>· Section 313 (Specific toxic chemical listings): Substance is not listed.</td>
<td></td>
</tr>
<tr>
<td>· TSCA (Toxic Substances Control Act): Substance is not listed.</td>
<td></td>
</tr>
<tr>
<td>· Hazardous Air Pollutants Substance is not listed.</td>
<td></td>
</tr>
<tr>
<td>· Proposition 65</td>
<td></td>
</tr>
<tr>
<td>· Chemicals known to cause cancer: Substance is not listed.</td>
<td></td>
</tr>
<tr>
<td>· Chemicals known to cause reproductive toxicity for females: Substance is not listed.</td>
<td></td>
</tr>
<tr>
<td>· Chemicals known to cause reproductive toxicity for males: Substance is not listed.</td>
<td></td>
</tr>
<tr>
<td>· Chemicals known to cause developmental toxicity: Substance is not listed.</td>
<td></td>
</tr>
<tr>
<td>· Carcinogenic categories</td>
<td></td>
</tr>
<tr>
<td>· EPA (Environmental Protection Agency) Substance is not listed.</td>
<td></td>
</tr>
<tr>
<td>· TLV (Threshold Limit Value established by ACGIH) Substance is not listed.</td>
<td></td>
</tr>
<tr>
<td>· NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.</td>
<td></td>
</tr>
<tr>
<td>· GHS label elements</td>
<td></td>
</tr>
<tr>
<td></td>
<td>The substance is classified and labeled according to the Globally Harmonized System (GHS).</td>
</tr>
<tr>
<td>· Hazard pictograms</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GHS06</td>
</tr>
<tr>
<td>· Signal word</td>
<td>Danger</td>
</tr>
<tr>
<td>· Hazard statements</td>
<td>Toxic if swallowed.</td>
</tr>
</tbody>
</table>
49.0.14

Precautionary statements

- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- If swallowed: Immediately call a poison center/doctor.
- Specific treatment (see on this label).
- Rinse mouth.
- Store locked up.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

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
- **Date of preparation / last revision:** 07/02/2019
- **Abbreviations and acronyms:**
  - IMDG: International Maritime Code for Dangerous Goods
  - DOT: US Department of Transportation
  - IATA: International Air Transport Association
  - ACGIH: American Conference of Governmental Industrial Hygienists
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - NFPA: National Fire Protection Association (USA)
  - HMIS: Hazardous Materials Identification System (USA)
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - NIOSH: National Institute for Occupational Safety
  - OSHA: Occupational Safety & Health
  - TLV: Threshold Limit Value
  - PEL: Permissible Exposure Limit
  - REL: Recommended Exposure Limit
  - Acute Tox. 3: Acute toxicity – Category 3