MATERIAL SAFETY DATA SHEET
11/9/2018

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

- **Product identifier**
  - **Product name:** RAW 264.7 Electroporation Kit
  - **Catalog number:** 6585, 6586, 7082
  - **Chemical name:** Not applicable
  - **Application of the substance / the preparation:** Laboratory chemicals
  - **REACH registration number:** No registration number is given yet for this substance / substances in this mixture since the annual import quantity is less than one tonnage per annum or the transition period for its registration according to Article 23 of REACH has not yet expired.

- **Relevant identified uses of the substance or mixture and uses advised against**
  - **Relevant identified uses:** General Purpose Reagent
  - **Uses advised against:** Not for consumer use

- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**
    - Altogen Biosystems
    - 848 Rainbow Blvd Suite 823
    - Las Vegas, NV 89107 USA
    - Tel. (702) 349-6103
    - Fax. (702) 989-0841

- **Further information obtainable from:**
  - Please visit our site: [http://www.altogen.com](http://www.altogen.com)
  - Contact us at e-mail: techserv@altogen.com
  - **Emergency telephone number:**
    - For Chemical Emergency (Spill, Leak, Fire, Exposure or Accident), Call CHEMTREC Day or Night
      - Domestic North America: 1-800-424-9300
      - International: 1-703-527-3887

2 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Solution, consisting of the following components


| Components | 7732-18-5 | Water | >90% |

- **Other components:**
  - Components not listed here are not hazardous to health or their concentrations do not exceed the limits specified in the OSHA Hazard Communication Standard 29 CFR 1910.1200

3 Hazards identification

- **Classification of the substance or mixture**
Classification according to Regulation (EC) No 1272/2008 [CLP]

- Physical Hazards: Not Hazardous
- Health Hazards: Not Hazardous
- Environmental Hazards: Not Hazardous

Classification according to Directive 67/548/EEC or 1999/45/EC: Not Hazardous

Additional Information: Not applicable

Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

- Hazard pictograms: No pictogram
- Signal word: None
- Hazard statements: Not applicable
- Precautionary statements: Observe the general safety regulations when handling chemicals
- Other hazards: this mixture does not contain any substances that are assessed to be a PBT or vPvB

Classification system:

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

- HMIS-ratings (scale 0 - 4)
  - Health = 0
  - Fire = 0
  - Reactivity = 0

- OSHA Hazard Overview (Criteria according to 29CFR1910.1200)
  - Not applicable
- Target Organs
  - Not applicable or unknown

4 First aid measures

- General information: No special measures required.
- After inhalation: Not expected to be an inhalation hazard under anticipated conditions of normal use. Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin; rinse with plenty of water. Immediate medical attention is not required.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor

5 Firefighting measures

- Suitable extinguishing agents:
  CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam
- Special hazards arising from the substance or mixture: No further relevant information available
- Protective equipment: No special measures required

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures: Not required
- Environmental precautions: Dilute with plenty of water
- Methods and material for containment and cleaning up:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust)
- Reference to other sections: No dangerous substances are released.
7 Handling and storage

- Handling:
  - Precautions for safe handling: No special measures required
  - Information about protection against explosions and fires: No special measures required
- Storage:
  - Requirements to be met by storerooms and receptacles: No special requirements
  - Information about storage in one common storage facility: Not required
  - Further information about storage conditions: None
  - Specific end use(s): No further relevant information available

8 Exposure controls/personal protection

- Components 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 that were valid during the creation were used as basis
- 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: Protective gloves
    The glove material has to be impermeable and resistant to the product/ the substance/ the preparation
  - 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 cannot be calculated in advance and has therefore to be checked prior to the application
  - Eye protection: Use of goggles is recommended
  - Environmental exposure controls: No special environmental precautions required. Dilute with plenty of water.

9 Physical and chemical properties

- General Information
- Appearance:
  - Form: Solution
  - Color: Colorless
  - Odor: Odorless
- Change in condition
  - Melting point/Melting range: Undetermined
  - Boiling point/Boiling range: Undetermined
  - Flash point: Not applicable
  - Auto igniting: Product is not self-igniting
  - Danger of explosion: Product does not present an explosion hazard
  - Density: Not determined
  - Solubility in / Miscibility with
    - Water: Fully miscible
  - Other information: No further relevant information available

10 Stability and reactivity

- Reactivity: None known
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Incompatible materials: No further relevant information available.
### 11 Toxicological information

- **Acute toxicity**: No evidence indicating 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**: The product is not subject to classification according to internally approved calculation methods for preparations. 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.

### 12 Ecological information

- **Aquatic toxicity**: No further relevant information available
- **Persistence and degradability**: No further relevant information available
- **Behavior in environmental systems**: No further relevant information available
- **Bioaccumulative potential**: No further relevant information available
- **Results of PBT and vPvB assessment**: This mixture does not contain any components assessed as PBT or vPvB
- **Additional ecological information**:
  - **General notes**: Generally not hazardous for water

### 13 Disposal considerations

- **Waste treatment methods**: Minimize production of waste wherever possible. This material and its container must be disposed of in according to approved disposal technique.
- **Recommendation**: Smaller quantities can be disposed of with household waste
- **Uncleaned packagings**: Empty containers may retain some product residues.
- **Recommendation**: Disposal must be made according to official regulations
- **Recommended cleansing agent**: Water, if necessary with cleansing agents

### 14 Transport information

- Not classified as dangerous in the meaning of transport regulations.

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<th>Item</th>
<th>Value</th>
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<tbody>
<tr>
<td>UN-Number</td>
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<td>DOT, ADR, ADN, IMDG, IATA</td>
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<td>Special precautions for user</td>
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<tr>
<td>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</td>
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15  Regulatory information

- Substances of Very High Concern:
  None
- Restricted substances under EC 1907/2006, Annex XVII:
  None
- Restricted substances under Annex V of Regulation (EC) No 689/2008:
  None
  None
- Sara
- Section 355 (extremely hazardous substances):
  None of the ingredients are listed
- Section 313 (Specific toxic chemical listings):
  None of the ingredients are listed
- TSCA (Toxic Substances Control Act):
  None of the ingredients are listed
- Proposition 65
- Chemicals known to cause cancer:
  None of the ingredients are listed
- Chemicals known to cause reproductive toxicity for females:
  None of the ingredients are listed
- Chemicals known to cause reproductive toxicity for males:
  None of the ingredients are listed
- Chemicals known to cause developmental toxicity:
  None of the ingredients are listed
- Cancerogenity categories
- EPA (Environmental Protection Agency)
  None of the ingredients are listed
- IARC (International Agency for Research on Cancer)
  None of the ingredients are listed
- NTP (National Toxicology Program)
  None of the ingredients are listed
- TLV (Threshold Limit Value established by ACGIH)
  None of the ingredients are listed
- NIOSH-Ca (National Institute for Occupational Safety and Health)
  None of the ingredients are listed
- OSHA-Ca (Occupational Safety & Health Administration)
  None of the ingredients are listed
- German Water hazard classes (Wassergefährdungsklassen)
  Not classified
- Product related hazard information:
  Observe the general safety regulations when handling chemicals. The product is not subject to identification regulations according to directives on hazardous materials.

16  Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

This information is based on our present knowledge and shall be used only as a guide. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Altogen Biosystems is not held liable for any damage resulting from handling or from contact with the above mentioned products.
MSDS has been prepared in accordance with ISO 11014-1 Standard and OSHA Hazard Communication Standard 29 CFR 1910.1200.