Section 1 - Chemical Product and Company Identification

<table>
<thead>
<tr>
<th>GHS Product Identifier</th>
<th>Product Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>35201-58, 35640-70</td>
<td>Dissolved Oxygen Sensor Electrolyte for 35201-56</td>
</tr>
</tbody>
</table>

Manufacturer Name
Cole Parmer

Recommended Use/ Restrictions on Use
Use as refill electrolyte for dissolved oxygen amperometric sensor. Not for household use.

Address (Number, Street, City, State and Zip Code)
625 E. Bunker Ct, Vernon Hills, IL 60061

Emergency Telephone Number (24 hr) (800) 222-1222
American Association of Poison Control Centers

Section 2 - Hazards Identification

GHS Classification: Reproductive toxicity (Category 1B) H360

GHS Label Elements

Signal Word: Hazard Statements:
Danger: H360 - May damage fertility or the unborn child.

Precautionary Statements:
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P281 - Use personal protective equipment as required.
P308 + P313 - IF exposed or concerned: Get medical advice/attention.
P405 - Store locked up.
P501 - Dispose of contents/container to comply with local, state and federal regulations.

Other hazards not classified or covered by GHS: None
Section 3 - Composition/Ingredient information

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS Registry #</th>
<th>EC#</th>
<th>Percent Weight (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Tetraborate Decahydrate</td>
<td>1303-96-4</td>
<td>215-540-4</td>
<td>4</td>
</tr>
<tr>
<td>Sodium Chloride</td>
<td>7647-14-5</td>
<td>231-598-3</td>
<td>5.9</td>
</tr>
<tr>
<td>Deionized Water</td>
<td>7732-18-5</td>
<td>231-791-2</td>
<td>Balance</td>
</tr>
</tbody>
</table>

Section 4 - First Aid Measures

Description of Necessary First Aid Measures:

**General:** Consult a physician. Present this safety data sheet to the doctor in attendance. Move out of dangerous area.

**IF INHALED:** Move person into fresh air. If not breathing, perform rescue breathing and contact emergency medical personnel. If breathing is difficult, give oxygen.

**SKIN CONTACT:** Wash affected area with soap and water.

**INGESTION:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**EYE CONTACT:** Irrigate immediately with large quantity of water for at least 15 minutes. Consult a physician.

Most important symptoms/effects, acute and delayed:

**INHALATION:** May cause irritation of respiratory tract.

**SKIN CONTACT:** May cause slight irritation.

**EYE CONTACT:** May cause slight irritation.

**INGESTION:** Irritation of gastric/intestinal mucosa.

Indication of Immediate Medical Attention and Special Treatment Needed, if Necessary:

No data available

Section 5 - Fire-fighting Measures

Suitable extinguishing media:

**SUITABLE:** Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**UNSUITABLE:** No unsuitable extinguishing media known.

Specific hazards arising from the chemical (combustion products):

N/A. Not flammable

Special protective actions for fire-fighters:

Wear self-contained breathing apparatus for fire-fighting if necessary.
Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency responders:

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Refer to Section 8 for Personal Protective Equipment.

Environmental precautions:

Do not let product enter drains.

Methods and materials for containment and cleaning up:

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable closed containers for disposal.

Section 7 - Handling and Storage

Precautions for safe handling:  
Do not ingest. Do not get in eyes, skin or on clothing. Keep container closed. Use only with adequate ventilation. Do not breathe vapor or mist. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibles:  
Keep in tightly closed container. Store in a cool, dry, well-ventilated area.

INCOMPATIBLE MATERIALS: Strong acids.

Section 8 - Exposure Controls/Personal Protection

Control parameters:  
Occupational exposure limits: Sodium tetraborate decahydrate (1303-96-4).

ACGIH TLV  
STEL: 6mg/m³ 15 minutes  
TWA: 2mg/m³ 8 hours

NIOSH REL  
TWA: 5mg/m³ 8 hours

Appropriate Engineering Controls:  
Facilities storing or utilizing this product should be equipped with an eyewash facility and safety shower. Use adequate ventilation to keep any airborne concentrations low.

Individual protection measures, personal protective equipment:  

RESPIRATORY PROTECTION: Use respirator.

SKIN PROTECTION: Wear appropriate protective gloves and clothes to prevent skin exposure.

EYE PROTECTION: Recommended. Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 European Standard EN166.
Section 9 - Physical and Chemical Properties

**APPEARANCE:** Clear, colorless liquid

**pH:** 8.6

**ODOR:** Odorless

**ODOR THRESHOLD:** N/A

**FLASH POINT:** N/A

**VAPOR PRESSURE:** No data available

**RELATIVE DENSITY:** 1

**BOILING POINT (°C):** Approximately 100

**MELTING POINT (°C):** Approximately 0

**FLAMMABILITY:** N/A

**VAPOR DENSITY:** No data available

**SOLUBILITY IN WATER:** Infinite

**PARTITION COEFFICIENT (n-octanol/water):** No data available

**UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:** No data available

**EVAPORATION RATE compared with (n-butyl acetate = 1):** 0.36 (water)

**VISCOSITY:** No data available

**AUTO-IGNITION TEMPERATURE:** N/A

**DECOMPOSITION TEMPERATURE:** No data available

Section 10 - Stability and Reactivity

**REACTIVITY:**
Dilute saline solution stable in most environments.

**CHEMICAL STABILITY:** Stable under normal conditions of use and storage.

**CONDITIONS TO AVOID:**
Extreme heat

**POSSIBILITY OF HAZARDOUS REACTIONS:**
Hazardous polymerization will not occur.

**INCOMPATIBLE MATERIALS:**
Strong acids

**HAZARDOUS DECOMPOSITION PRODUCTS:**
No data available

Section 11 - Toxicological Information

**Acute toxicity:** Not classified.

**Skin corrosion/irritation:** Not classified.

**Serious eye damage/irritation:** Not classified.

**Respiratory or skin sensitization:** Not classified.

**Germ cell mutagenicity:** Not classified.

**Carcinogenicity:** Not classified.

**Reproductive toxicity:** Category 1B H360 May damage fertility or the unborn child.

**STOT Single exposure:** Not classified.

**STOT Repeated exposure:** Not classified.

**Aspiration hazard:** Not classified.

**Symptoms related to the physical, chemical and toxicological characteristics:**

**INHALATION:** No data available.

**SKIN CONTACT:** No data available.

**EYE CONTACT:** No data available.

**INGESTION:** No data available.

**AFTER ABSORPTION OF LARGE QUANTITIES:** No data available.

**AFTER REPEATED EXPOSURE:** No data available.

**Delayed and immediate effects also chronic from short and long term exposure:**
No data available

**Numerical measure of toxicity:**

TOXICITY DATA United States: Sodium Tetraborate Decahydrate LD50 4500 mg/kg oral rat. LD50 10000 mg/kg dermal rabbit.
Section 12 - Ecological Information

**ECOTOXICITY:**
- **Toxicity to fish**
  - LC50 - *Carassius auratus* (goldfish) - 178 mg/L - 72 hr.
- **Toxicity to aquatic invertebrates**
  - EC50 - *Daphnia magna* (water flea) - 1085 - 1402 mg/L hr.
- **Toxicity to algae**
  - IC50 - *Desmodesmus subspicatus* (green algae) - 158 mg/L - 96 hr.

**PERSISTANCE AND DEGRADABILITY:** No data available

**MOBILITY IN SOIL:** No data available

**BIOACCUMULATIVE POTENTIAL:** No data available

**OTHER ADVERSE EFFECTS:** No data available

Section 13 - Disposal Considerations

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal should be in accordance with all applicable regional, national and local laws and regulations.

Section 14 - Transportation Information

- **UN NUMBER:** Not dangerous goods
- **UN PROPER SHIPPING NAME:** Not dangerous goods
- **TRANSPORT HAZARD CLASS(ES):** N/A
- **PACKING GROUP:** Not hazardous
- **ENVIRONMENTAL HAZARD:** No supplementary information available

Section 15 - Regulatory Information - (NOT ALL INCLUSIVE)

**UNITED STATES**

**OSHA STATUS:** The items listed on this SDS do not contain any hazardous material or the potentially hazardous material is present in such low concentration that the items do not present any immediate threat to health or safety. These items do not meet the OSHA Hazard Communication Standard (29CFR 1910.1200) definition of hazardous material.

**TSCA Status:** All components of this solution are listed on the TSCA Inventory.

Section 16 - Other Information

**Date of preparation:** March, 2015

This SDS replaces Dissolved Oxygen Sensor electrolyte refill solution RevB 6-20-2008.

Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and Sensorex Corporation assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.

**Full text of Hazard Statements referred to in Section 2:**

H360 May damage fertility or the unborn child.