# SAFETY DATA SHEET

## 1. Product and Company Identification

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Potassium chloride with saturated Ag⁺ gel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Number</td>
<td>1E</td>
</tr>
<tr>
<td>Product Use</td>
<td>Gel for Single Junction Reference Electrodes</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Van London Company</td>
</tr>
<tr>
<td>Address</td>
<td>10540 RockleyRoad, Houston, Texas 77099</td>
</tr>
<tr>
<td>Telephone</td>
<td>832-456-6641</td>
</tr>
<tr>
<td>Emergency Phone</td>
<td>832-456-6641</td>
</tr>
</tbody>
</table>

## 2. Hazards Identification

### Emergency Overview

OSHA Hazards
- Acute aquatic toxicity (Category 3), H402
- Chronic aquatic toxicity (Category 3), H412

### HMIS Classification
- Health Hazard: 1
- Flammability: 0
- Physical Hazards: 0

### NFPA Rating
- Health Hazard: 0
- Fire: 0
- Reactivity Hazard: 0

### Potential Health Effects
- Inhalation: No effects anticipated
- Skin: No effects anticipated
- Eyes: No effects anticipated
- Ingestion: No effects anticipated

## 3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium chloride</td>
<td>7447-40-7</td>
<td>30</td>
</tr>
<tr>
<td>Silver chloride</td>
<td>7783-90-6</td>
<td>0.001</td>
</tr>
<tr>
<td>Sodium Carboxymethyl Cellulose</td>
<td>9004-32-4</td>
<td>5</td>
</tr>
<tr>
<td>Deionized water</td>
<td>7732-18-5</td>
<td>64.999</td>
</tr>
</tbody>
</table>

## 4. First Aid Measures

- **Eye:** Flush eyes with plenty of water. Consult a physician.
- **Skin:** Wash off with soap and plenty of water.
- **Inhalation:** Move person into fresh air. If not breathing, give artificial respiration.
- **Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water.
5. Fire Fighting Measures

Suitable extinguishing media Hazardous combustion products

- **Hazardous combustion products**: Hydrogen chloride gas, Potassium oxides.
- **Suitable extinguishing media**: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- **Special protective equipment for firefighters**: Wear self-contained breathing apparatus for fire fighting if necessary.

6. Accidental Release Measures

- **Personal precautions**: Avoid breathing vapours, mist or gas. Ensure adequate ventilation.
- **Environmental precautions**: Do not let product enter drains. Discharge into the environment must be avoided.
- **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.

7. Handling and Storage

- **Handling**: Avoid contact with eyes. Avoid inhalation of vapour or mist. Wash thoroughly after handling.
- **Storage**: Keep container tightly closed and upright in a dry and well-ventilated place. Store at ambient or lower temperature. Protect against physical damage.

8. Exposure Controls and Personal Protection

- **Exposure Limits Engineering Controls**: Contains no substances with occupational exposure limit values
- **Personal Protective Equipment**: Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
- **Hand Protection**: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Wash and dry hands after handling.
- **Eye Protection**: Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
- **Skin and body protection**: Impervious clothing.
- **Hygiene measures**: General industrial hygiene practice.

9. Physical and Chemical Properties

- **Appearance**: Clear, colorless liquid
- **Odor**: None
- **Odor Threshold**: No data available
- **pH**: 5.5 - 8.0

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**10. Stability and Reactivity**

**Chemical Stability**
Stable under recommended storage conditions.

**Possibility of Hazardous reactions**
No data available

**Conditions to avoid**
No data available

**Materials to avoid**
Strong oxidizing agents

**Hazardous decomposition products**
No data available

**11. Toxicological Information**

**Signs and Symptoms of Overexposure**
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Acute Effects**

<table>
<thead>
<tr>
<th>Overexposure</th>
<th>None reported</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Contact</td>
<td>No data available</td>
</tr>
<tr>
<td>Skin Contact</td>
<td>No data available</td>
</tr>
<tr>
<td>Inhalation</td>
<td>No data available</td>
</tr>
<tr>
<td>Ingestion</td>
<td>No data available</td>
</tr>
<tr>
<td>Germ Cell</td>
<td>No data available</td>
</tr>
</tbody>
</table>

**Target Organ Effects**
No data available

**Chronic Effects**
No data available

**Medical Conditions**
No data available

**Aggravated by Exposure**
No data available

**Acute Toxicity Values**

<table>
<thead>
<tr>
<th>Exposure Route</th>
<th>None reported</th>
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<tbody>
<tr>
<td>Oral LD50</td>
<td>None reported</td>
</tr>
<tr>
<td>Inhalation LC50</td>
<td>None reported</td>
</tr>
<tr>
<td>Dermal LD50</td>
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</table>

**Carcinogenicity**

- **IARC**
  No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

- **ACGIH**
  No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP  No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated arcinogen by NTP.

OSHA  No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potentil carcinogen by OSHA.

Reproductive Toxicity  No data available
Teratogenicity  No data available
Specific target organ toxicity - single exposure  No data available
Specific target organ toxicity - repeated exposure  No data available
Aspiration Hazard  No data available
Potential Inhalation  No data available
Health Ingestion  No data available
Effects Skin  No data available
Eyes  No data available

12. Ecological Information
Toxicity  No data available
Persistence & degradability  No data available
Bioaccumulative potential  No data available
Mobility in soil  No data available
Other adverse effects  Harmful to aquatic life.

13. Disposal Considerations
Disposal method  Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging  Dispose of as unused product.

14. Transport Information
DOT (US)  Not dangerous goods
IMDG  Not dangerous goods
IATA  Not dangerous goods

15. Regulatory Information
OSHA Hazards  No known OSHA hazards
SARA 302 Components  No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components  This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards  Chronic Health Hazard
Massachusetts Right To Know Components  No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right To Know Components

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New Jersey Right To Know Components

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### 16. Other Information

<table>
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<tr>
<th>Issuing Date</th>
<th>7/17/2018</th>
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<tbody>
<tr>
<td>Revision No.</td>
<td>1.0</td>
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<tr>
<td>Disclaimer</td>
<td>The information contained herein is accurate to the best of our knowledge, but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Van London Company makes no warranty of any kind, expressed, or implied, concerning the safe use of this material in your process or in combination with other substances. Van London Company shall not be held liable for any damage resulting from handling or from contact with the above product.</td>
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