1. Product and Company Identification
   - Product Name: Potassium chloride solution
   - Product Number: 699-06494
   - Product Use: Reference Fill Solution
   - Manufacturer: Van London Company
   - Address: 6103 Glenmont Drive, Houston, Texas 77081
   - Telephone: 713-772-6641
   - Emergency Phone: 713-772-6641

2. Hazards Identification
   - Emergency Overview
     - OSHA Hazards
       - Acute aquatic toxicity (Category 3), H402
       - Chronic aquatic toxicity (Category 3), H412
     - HMIS Classification
       - Health Hazard: 1
       - Chronic Health Hazard: 0
       - 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
   - Component | CAS Number | Weight %
   - Potassium chloride | 7447-40-7 | 30
   - Deionized water | 7732-18-5 | 70

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
     - Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
   - Hazardous combustion products
     - Hydrogen chloride gas, Potassium oxides.
   - 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
Contains no substances with occupational exposure limit values

Engineering Controls
Maintain general industrial hygiene practices when using this product.

Personal Protective Equipment
Respiratory Protection
Repiratory 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

Freezing Point
-4°C

Boiling Point
104°C

Flash Point
No data available

Evaporation rate
No data available

Flammability
No data available

Lower explosion limit
No data available

Upper explosion limit
No data available

Vapor pressure
No data available

Solubility
Soluble in water

Vapor density
No data available
Relative density 1.120 g/cm3 at 20°C (68°F)
Partition coefficient:
n-octanol/water No data available
Auto-Ignition temperature No data available
Decomposition temperature No data available
Density No data available
Viscosity No data available
Molecular mass No data available

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
Eye Contact No data available
Skin Contact No data available
Inhalation No data available
Ingestion No data available
Germ Cell Mutagenicity No data available
Target Organ Effects No data available
Chronic Effects No data available
Medical Conditions No data available

Aggravated by Exposure
Acute
Oral LD50 None reported

Toxicity
Inhalation LC50 None reported

Values
Dermal LD50 None reported
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 potentil 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 - No data available
  single exposure
Specific target organ toxicity - No data available
  repeated exposure
This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

16. Other Information

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<th>Issuing Date</th>
<th>9/24/2014</th>
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<tbody>
<tr>
<td>Revision No.</td>
<td>1.0</td>
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### Aspiration Hazard
- **Potential Inhalation**: No data available
- **Health Effects Skin**: No data available
- **Health Effects 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**: No components are subject to the Pennsylvania Right to Know Act.

### New Jersey Right To Know Components

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Revision Date</th>
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<tr>
<td>Water</td>
<td>7732-18-5</td>
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</tr>
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<td>7447-40-7</td>
<td></td>
</tr>
</tbody>
</table>

### California Prop. 65 Components
This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.
Disclaimer

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 pHoenix 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 pHoenix Company shall not be held liable for any damage resulting from handling or from contact with the above product.