### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Product Name:** BAK-XXX, Potassium Chloride Additives  
**Revision Number:** 3.0  
**Synonyms:** Potassium Chloride  
**Use of the Substance / Preparation:** Potassium Chloride Electrolyte Additive for Hemodialysis Concentrate  
**Company Name:** Di-Chem, Inc.  
12297 Ensign Ave N  
Champlin, MN 55316  
763-422-8311  
**Emergency response telephone number:** CHEMTREC (US): 1-800-424-9300

### 2. HAZARDS IDENTIFICATION

**Emergency Overview:** Not a hazardous substance or mixture.

<table>
<thead>
<tr>
<th>Appearance:</th>
<th>Physical State:</th>
<th>Odor:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Powder / Granular</td>
<td>White Solid</td>
<td>Odorless</td>
</tr>
</tbody>
</table>

**GHS Classification:**  
Not Classified: Not a hazardous substance or mixture  
Hazards Not Otherwise Classified: None

**GHS Label Elements:**  
**Signal Word:** None  
**GHS Hazard Pictogram(s):** None  
**Hazard Statement(s):** Not a hazardous substance or mixture  
**Precautionary Statement(s):** Not a hazardous substance or mixture
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name:</th>
<th>Molecular Formula:</th>
<th>CAS-No:</th>
<th>Weight %:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Chloride</td>
<td>KCl</td>
<td>7447-40-7</td>
<td>99-100</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

**Eye Contact:**
Immediately flush eyes with plenty of water. If irritation persists, call a physician.

**Skin Contact:**
Wash off exposed area with soap and plenty of water. If skin irritation persists, call a physician.

**Ingestion:**
Never give anything by mouth to an unconscious person. Clean mouth with water and drink afterwards plenty of water. If symptoms persist, call a physician.

**Inhalation:**
Move to fresh air. If irritation persists, call a physician.

**Note to Physicians:**
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

**Flammable Properties:**
Not Flammable.

**Extinguishing Media:**
Dry chemical; Carbon dioxide (CO2); Water spray; Foam.

**Unsuitable Extinguishing Media:**
No information available.

**Protective Equipment and Precautions for Firefighters:**
In the event of a fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**NFPA**

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Stability and Reactivity</th>
<th>Physical hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>0</td>
<td>None known</td>
</tr>
</tbody>
</table>
6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin and eyes. Avoid dust formation. Use personal protective equipment as appropriate.

Environmental Precautions: Prevent further leakage or spillage if safe to do so.

Methods for Clean up: Clean up and transfer to properly labeled containers. Avoid dust formation. Keep in suitable, closed containers for disposal. For disposal information see section 13.

7. HANDLING AND STORAGE

Handling: If deemed necessary, wear personal protective equipment. Avoid contact with skin and eyes. Avoid dust formation.

Storage: Keep containers tightly closed in a dry, cool, and well-ventilated place. Keep away from incompatible substances.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits: This product contains no substances with occupational exposure limit values.

OSHA - Permissible exposure limit (PEL): Not established
ACGIH - Threshold limit value (TLV): Not established

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice. Wash hands before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.


Personal Protective Equipment (PPE)

Eye/Face Protection: Safety glasses or goggles.

Skin and Body Protection: If irritation is experienced wear gloves and suitable protective clothing to avoid skin contact.

Respiratory Protection: If irritation is experienced wear a NIOSH-approved mask/respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White</td>
</tr>
<tr>
<td>Physical State</td>
<td>Solid: Powder / Granular</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>7 - 9</td>
</tr>
<tr>
<td>Dissociation Constants (pKa)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>1,500 °C (2,732 °F)</td>
</tr>
<tr>
<td>Melting/Freezing Point</td>
<td>770 °C (1,418 °F)</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Oxidizing Properties: No data available
Flammability Limits in Air: No data available
Explosion Limits: No data available

Solubility(ies)
Water Solubility: 3.4g/l at 20°C
Density: 1.987g/cc
Relative Density: No data available
Bulk Density: No data available
Explosive Properties: No data available

10. STABILITY AND REACTIVITY

Stability: Not applicable. Stable under normal conditions.
Conditions to Avoid: Avoid dust formation. Exposure to moisture. Incompatibles.
Hazardous Decomposition Products: No data available.

11. TOXICOLOGICAL INFORMATION

Product Information:
Acute Toxicity: 0% of the mixture consists of ingredient(s) of unknown toxicity. The following values are calculated based on chapter 3.1 of the GHS document.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD₅₀:</th>
<th>Dermal LD₅₀:</th>
<th>LC₅₀ (Lethal Concentration):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Chloride</td>
<td>2600 mg/kg (Rat)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Chronic Toxicity:
Carcinogenicity: This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not classified for aquatic toxicity. Contains no substances known to be hazardous to the environment. Contains no substances known to be not degradable in wastewater treatment plants.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Toxicity to Daphnia (Water flea)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Chloride</td>
<td></td>
<td></td>
<td>EC₅₀: 440mg/L (Daphnia magna)</td>
</tr>
</tbody>
</table>

Persistence/Degradability: No data available.

Mobility: Soluble in water.

Bioaccumulation: No data available.

13. DISPOSAL CONSIDERATIONS

Waste from Residues/Unused Products: Disposal should be in accordance with applicable regional, national and local laws and regulations.

Packaging: Empty containers should be decontaminated and taken for local recycling, recovery or waste disposal.
14. TRANSPORT INFORMATION

DOT – Not Regulated
TDG – Not Regulated
MEX – Not Regulated
ICAO – Not Regulated
IATA – Not Regulated
IMDG/IMO – Not Regulated

15. REGULATORY INFORMATION

International Inventories:
All of the components in the product are on the following Inventory lists:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>TSCA</th>
<th>DSL</th>
<th>NDSL</th>
<th>EINECS</th>
<th>ELINCS</th>
<th>AICS</th>
<th>ENCS ISHL</th>
<th>CHINA</th>
<th>PICCS</th>
<th>KECL</th>
<th>NZLoC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Chloride</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

US Federal Regulations:

CERCLA:
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

SARA 313:
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals, which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization:
- Acute Health Hazard: No
- Chronic Health Hazard: No
- Fire Hazard: No
- Sudden Release of Pressure Hazard: No
- Reactive Hazard: No

US State Regulations:
California Proposition 65: This product does not contain any Proposition 65 chemicals.
No known components subject to “Right-To-Know” legislation in the following States: Massachusetts, Minnesota, New Jersey, Pennsylvania.

16. OTHER INFORMATION

Prepared By: Di-Chem, Inc.
Original Preparation Date: 14-May-2015
Revision Date: 05-October-2016
Revision Number: 3.0 - This version replaces all previous versions.

HMI Rating
Health: 1
Flammability: 0
Reactivity: 0
Personal Protection:
Disclaimer:
Please be advised that it is your responsibility to inform your employees of the hazards of this substance, to advise them of what these properties mean and be sure they understand exposure information. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered as a warranty or quality specification.

END OF SAFETY DATA SHEET