Potassium Chloride Bi-Product Solution, Bulk

Safety Data Sheet
Revision Date: 04/18/2017 Date of Issue: 05/01/2015
Version: 2.0

SECTION 1: IDENTIFICATION
Product Identifier
Product Form: Mixture
Product Name: Potassium Chloride Bi-Product Solution, Bulk

Intended Use of the Product
Industrial applications.

Name, Address, and Telephone of the Responsible Party
Manufacturer
CHEMTRADE LOGISTICS INC.
155 Gordon Baker Road
Suite 300
Toronto, Ontario M2H 3N5
For SDS Info: (416) 496-5856
www.chemtradelogistics.com

Emergency Telephone Number
Emergency Number : Canada: CANUTEC +1-613-996-6666 / US: CHEMTREC +1-800-424-9300
INTERNATIONAL: +1-703-741-5970
Chemtrade Emergency Contact: (866) 416-4404
For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC – Day or Night

SECTION 2: HAZARDS IDENTIFICATION
Classification of the Substance or Mixture
GHS Classification
Not classified

Label Elements
GHS Labeling
No labeling applicable

Other Hazards
No additional information available

Unknown acute toxicity
No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS
Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>%*</th>
<th>GHS Ingredient Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>(CAS No) 7732-18-5</td>
<td>70 - 95</td>
<td>Not classified</td>
</tr>
<tr>
<td>Potassium chloride</td>
<td>(CAS No) 7447-40-7</td>
<td>5 - 30</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16.

*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

SECTION 4: FIRST AID MEASURES
Description of First-aid Measures
General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: Using proper respiratory protection, immediately move the exposed person to fresh air. Keep at rest and in a position comfortable for breathing. Seek immediate medical advice.

Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash contaminated clothing before reuse.
Potassium Chloride Bi-Product Solution, Bulk

Safety Data Sheet

Eye Contact: Rinse with plenty of water immediately for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Rinse mouth.

Most Important Symptoms and Effects Both Acute and Delayed
- General: None expected under normal conditions of use.
- Inhalation: May cause respiratory irritation. Symptoms may be delayed.
- Skin Contact: May cause skin irritation.
- Eye Contact: May cause eye irritation.
- Ingestion: Ingestion is likely to be harmful or have adverse effects.
- Chronic Symptoms: Repeated or prolonged skin contact may cause dermatitis and defatting.

Indication of Any Immediate Medical Attention and Special Treatment Needed
If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media
- Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.
- Unsuitable Extinguishing Media: Do not use water jet. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture
- Fire Hazard: Not flammable.
- Explosion Hazard: Product is not explosive.
- Reactivity: Hazardous reactions will not occur under normal conditions.

Advice for Firefighters
- Precautionary Measures Fire: Exercise caution when fighting any chemical fire.
- Firefighting Instructions: Do not get water inside containers. Do not apply water stream directly at source of leak.
- Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.
- Other Information: Do not allow run-off from fire fighting to enter drains or water courses.

Reference to Other Sections
Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures
- General Measures: Avoid all contact with skin, eyes, or clothing. Handle in accordance with good industrial hygiene and safety practice.

For Non-Emergency Personnel
- Protective Equipment: Use recommended respiratory protection. Wear suitable protective clothing, gloves and eye/face protection.

For Emergency Personnel
- Protective Equipment: Use recommended respiratory protection. Wear suitable protective clothing, gloves and eye/face protection.

Environmental Precautions
Do not allow to enter drains or water courses. Avoid release to the environment.

Methods and Materials for Containment and Cleaning Up
- For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
- Methods for Cleaning Up: Collect spillage. Clean up spills immediately and dispose of waste safely.

Reference to Other Sections
See Section 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling
- Wear recommended personal protective equipment.
- Hygiene Measures: Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Handle in accordance with good industrial hygiene and safety procedures.

Conditions for Safe Storage, Including Any Incompatibilities

04/18/2017 EN (English US) SDS#: CHE-2040S
Storage Conditions: Store in original container or corrosive resistant and/or lined container. Store in a dry, cool and well-ventilated place. Store away from other materials.


Specific End Use(s)
Industrial applications.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters
For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Exposure Controls
Appropriate Engineering Controls: Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment: Gloves. Protective goggles.

Materials for Protective Clothing: Chemically resistant materials and fabrics.
Hand Protection: Wear chemically resistant protective gloves.
Eye Protection: Chemical goggles or safety glasses.
Skin and Body Protection: Wear suitable protective clothing.
Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.
Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties
Physical State: Liquid
Appearance: Clear to white colored solution
Odor: None
Odor Threshold: Not available
pH: 5 - 6.5
Evaporation Rate: Not available
Melting Point: Not applicable
Freezing Point: 0 °C (32 °F)
Boiling Point: 100 °C (212 °F)
Flash Point: Not applicable
Auto-ignition Temperature: Not applicable
Decomposition Temperature: Not available
Flammability (solid, gas): Not flammable
Lower Flammable Limit: Not applicable
Upper Flammable Limit: Not applicable
Vapor Pressure: Not available
Relative Vapor Density at 20°C: Not available
Relative Density: Not available
Specific Gravity: 1.01 - 1.25
Solubility: 100%.
Partition Coefficient: N-Octanol/Water: Not available
Viscosity: Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Hazardous reactions will not occur under normal conditions.

Chemical Stability: Stable at standard temperature and pressure.
Potassium Chloride Bi-Product Solution, Bulk

Safety Data Sheet


Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
Conditions to Avoid: Extremely high or low temperatures.
Hazardous Decomposition Products: None expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity (Oral): Not classified
Acute Toxicity (Dermal): Not classified
Acute Toxicity (Inhalation): Not classified
LD50 and LC50 Data: Not available
Skin Corrosion/Irritation: Not classified
pH: 5 - 6.5
Eye Damage/Irritation: Not classified
pH: 5 - 6.5
Respiratory or Skin Sensitization: Not classified
Germ Cell Mutagenicity: Not classified
Carcinogenicity: Not classified
Specific Target Organ Toxicity (Repeated Exposure): Not classified
Reproductive Toxicity: Not classified
Specific Target Organ Toxicity (Single Exposure): Not classified
Aspiration Hazard: Not classified
Symptoms/Effects After Inhalation: May cause respiratory irritation. Symptoms may be delayed.
Symptoms/Effects After Skin Contact: May cause skin irritation.
Symptoms/Effects After Eye Contact: May cause eye irritation.
Symptoms/Effects After Ingestion: Ingestion is likely to be harmful or have adverse effects.
Chronic Symptoms: Repeated or prolonged skin contact may cause dermatitis and defatting.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

<table>
<thead>
<tr>
<th>Water (7732-18-5)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LDS0 Oral Rat</td>
<td>&gt; 90000 mg/kg</td>
</tr>
<tr>
<td>Potassium chloride (7447-40-7)</td>
<td></td>
</tr>
<tr>
<td>LDS0 Oral Rat</td>
<td>2600 mg/kg</td>
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</table>

SECTION 12: ECOLOGICAL INFORMATION

Toxicity: No additional information available

<table>
<thead>
<tr>
<th>Potassium chloride (7447-40-7)</th>
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<tbody>
<tr>
<td>LC50 Fish 1</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
</tr>
<tr>
<td>LC50 Fish 2</td>
</tr>
<tr>
<td>EC50 Daphnia 2</td>
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</table>

Persistence and Degradability

<table>
<thead>
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<td>Persistence and Degradability</td>
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</table>

Bioaccumulative Potential

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Potassium Chloride Bi-Product Solution, Bulk

Safety Data Sheet

**Mobility in Soil**  Not available

**Other Adverse Effects**  Not available

### SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Recommendations**: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

### SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

Not regulated for transport according to: US DOT, IMDG, IATA, and Canada's TDG.

### SECTION 15: REGULATORY INFORMATION

#### US Federal Regulations

<table>
<thead>
<tr>
<th>Chemical Name (CAS No.)</th>
<th>CERCLA RQ</th>
<th>EPCRA 304 RQ</th>
<th>SARA 302 TPQ</th>
<th>SARA 313</th>
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</thead>
<tbody>
<tr>
<td>Potassium chloride (7447-40-7)</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>No</td>
</tr>
</tbody>
</table>

**SARA 311/312**  Not present

**US TSCA Flags**  Not present

#### US State Regulations

**California Proposition 65**

<table>
<thead>
<tr>
<th>Chemical Name (CAS No.)</th>
<th>Carcinogenicity</th>
<th>Developmental Toxicity</th>
<th>Female Reproductive Toxicity</th>
<th>Male Reproductive Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium chloride (7447-40-7)</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

**State Right-To-Know Lists**

**Potassium chloride (7447-40-7)**

- U.S. - Massachusetts - Right To Know List - No
- U.S. - New Jersey - Right to Know Hazardous Substance List - No
- U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List - No
- U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances - No
- U.S. - Pennsylvania - RTK (Right to Know) List - No

#### Canadian Regulations

**Potassium chloride (7447-40-7)**

Listed on the Canadian DSL (Domestic Substances List)

Not listed on the Canadian NDSL (Non-Domestic Substances List)

#### International Inventories/Lists

<table>
<thead>
<tr>
<th>Chemical Name (CAS No.)</th>
<th>Australia AICS</th>
<th>Turkey CICR</th>
<th>Korea ECL</th>
<th>EU EINECS</th>
<th>EU ELINCS</th>
<th>EU SVHC</th>
<th>EU NLP</th>
<th>Mexico INSQ</th>
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<tbody>
<tr>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Chemical Name (CAS No.)**

<table>
<thead>
<tr>
<th>China IECS</th>
<th>Japan ENCS</th>
<th>Japan ISHL</th>
<th>Japan PDSCL</th>
<th>Japan PRTR</th>
<th>Philippines PICCS</th>
<th>New Zealand NZIOC</th>
<th>US TSCA</th>
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</thead>
<tbody>
<tr>
<td>Potassium chloride (7447-40-7)</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
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</table>

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date**: 04/18/2017

**Revision Summary**

<table>
<thead>
<tr>
<th>Section</th>
<th>Change</th>
<th>Date Changed</th>
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<tbody>
<tr>
<td>5</td>
<td>Language modified</td>
<td>04/18/2017</td>
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<tr>
<td>6</td>
<td>Language modified</td>
<td>04/18/2017</td>
</tr>
<tr>
<td>10</td>
<td>Language modified</td>
<td>04/18/2017</td>
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</table>
Potassium Chloride Bi-Product Solution, Bulk

Safety Data Sheet


Indication of Changes: Revision date

Other Information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada’s Hazardous Products Regulations (HPR).

GHS Full Text Phrases:

NFPA 704

NFPA Health Hazard: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA Fire Hazard: 0 - Materials that will not burn.

NFPA Reactivity Hazard: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

HMIS Rating

Health: 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability: 0 Minimal Hazard

Physical: 0 Minimal Hazard

PPE: See Section 8

Abbreviations and Acronyms

AICS – Australian Inventory of Chemical Substances
ACGIH – American Conference of Governmental Industrial Hygienists
AIHA – American Industrial Hygiene Association
ATE – Acute Toxicity Estimate
BCF – Bioconcentration factor
BEI – Biological Exposure Indices (BEI)
CAS No. – Chemical Abstracts Service number
CERCLA RQ – Comprehensive Environmental Response, Compensation, and Liability Act - Reportable Quantity
CICR – Turkish Inventory and Control of Chemicals
ECSO – Median effective concentration
ECL – Korea Existing Chemicals List
EINECS – European Inventory of Existing Chemical Substances
ELINCS – European List of Notified Chemical Substances
EmS – IMDG Emergency Schedule Fire & Spillage
ENC – Japanese Existing and New Chemical Substances Inventory
EPA – Environmental Protection Agency
EPCRA 304 RQ – EPCRA 304 Extremely Hazardous Substance Emergency Planning and Community Right-to-Know Act – Reportable Quantity
ERAP Index – Emergency Response Assistance Plan Quantity Limit
ErCSO – ECSO in Terms of Reduction Growth Rate
ERG code (IATA) - Emergency Response Drill Code as found in the International Civil Aviation Organization (ICAO)
ERG No. - Emergency Response Guide Number
HCCL – Hazard Communication Carcinogen List
HMIS – Hazardous Materials Information System
IARC – International Agency for Research on Cancer
IATA – International Air Transport Association – Dangerous Goods Regulations
IDLH – Immediately Dangerous to Life or Health
IECSC – Inventory of Existing Chemical Substances Produced or Imported in China
IMDG – International Maritime Dangerous Goods Code
INSQ – Mexican National Inventory of Chemical Substances
ISHL – Japan Industrial Safety and Health Law
LC50 – Median Lethal Concentration
LD50 – Median Lethal Dose
LOAE – Lowest Observed Adverse Effect Level
LOEC – Lowest-observed-effect Concentration
NIOSH – National Institute for Occupational Safety and Health
NLP – Europe No Longer Polymers List
NOAEL – No-Observed Adverse Effect Level
NOEC – No-Observed Effect Concentration
NZIOC – New Zealand Inventory of Chemicals
OEL – Occupational Exposure Limits
OSHA – Occupational Safety and Health Administration
PEC – Permissible Exposure Limits
PICCS – Philippine Inventory of Chemicals and Chemical Substances
PDSC – Japan Poisonous and Deleterious Substances Control Law
PPE – Personal Protective Equipment
PRTR – Japan Pollutant Release and Transfer Register
REL – Recommended Exposure Limit
SADT – Self Accelerating Decomposition Temperature
SARA – Superfund Amendments and Reauthorization Act
SARA 302 - Section 302, 40 CFR Part 355
SARA 311/312 - Sections 311 and 312, 40 CFR Part 370 Hazard Categories
SARA 313 - Section 313, 40 CFR Part 372
SRCL – Specifically Regulated Carcinogen List
STEL – Short Term Exposure Limit
SVHC – European Candidate List of Substance of Very High Concern
TDG – Transport Canada Transport of Dangerous Goods Regulations
TLMD – Median Tolerance Limit
TVL – Threshold Limit Value
TPQ – Threshold Planning Quantity
TSCA – United States Toxic Substances Control Act
TWA – Time Weighted Average
WEEL – Workplace Environmental Exposure Levels
Handle product with due care and avoid unnecessary contact. This information is supplied under U.S. OSHA’S “Right to Know” (29 CFR 1910.1200) and Canada’s WHMIS regulations. Although certain hazards are described herein, we cannot guarantee these are the only hazards that exist. The information contained herein is based on data available to us and is believed to be true and accurate but it is not offered as a product specification. No warranty, expressed or implied, regarding the accuracy of this data, the hazards connected with the use of the product, or the results to be obtained from the use thereof, is made and Chemtrade and its affiliates assume no responsibility. Chemtrade is a member of the CIAC (Chemistry Industry Association of Canada) and adheres to the codes and principles of Responsible Care™.