SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance
Substance name : Potassium Chloride
CAS No : 7447-40-7
Product code : LC18790
Formula : KCl

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : For laboratory and manufacturing use only.

1.3. Details of the supplier of the safety data sheet

LabChem Inc
Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court
16063 Zelienople, PA - USA
T 412-826-5230 - F 724-473-0647
info@labchem.com - www.labchem.com

1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 or 011-703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification
Not classified

2.2. Label elements

GHS-US labelling
No labelling applicable

2.3. Other hazards

Other hazards not contributing to the classification : None.

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Mono-constituent

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Chloride</td>
<td>(CAS No) 7447-40-7</td>
<td>100</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

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).

First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

4.3. Indication of any immediate medical attention and special treatment needed

Obtain medical assistance.
**SECTION 5: Firefighting measures**

5.1. Extinguishing media

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Unsuitable extinguishing media</td>
<td>Do not use a heavy water stream.</td>
</tr>
</tbody>
</table>

5.2. Special hazards arising from the substance or mixture

<table>
<thead>
<tr>
<th>Fire hazard</th>
<th>Not flammable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Explosion hazard</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Reactivity</td>
<td>None.</td>
</tr>
</tbody>
</table>

5.3. Advice for firefighters

<table>
<thead>
<tr>
<th>Firefighting instructions</th>
<th>Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protection during firefighting</td>
<td>Do not enter fire area without proper protective equipment, including respiratory protection.</td>
</tr>
</tbody>
</table>

**SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

<table>
<thead>
<tr>
<th>Protective equipment</th>
<th>Safety glasses.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency procedures</td>
<td>Evacuate unnecessary personnel.</td>
</tr>
</tbody>
</table>

6.1.2. For emergency responders

<table>
<thead>
<tr>
<th>Protective equipment</th>
<th>Equip cleanup crew with proper protection.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency procedures</td>
<td>Ventilate area.</td>
</tr>
</tbody>
</table>

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

<table>
<thead>
<tr>
<th>Methods for cleaning up</th>
<th>On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.</th>
</tr>
</thead>
</table>

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

**SECTION 7: Handling and storage**

7.1. Precautions for safe handling

<table>
<thead>
<tr>
<th>Precautions for safe handling</th>
<th>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.</th>
</tr>
</thead>
</table>

7.2. Conditions for safe storage, including any incompatibilities

<table>
<thead>
<tr>
<th>Storage conditions</th>
<th>Keep only in the original container in a cool, well ventilated place away from incompatible materials. Keep container closed when not in use.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incompatible materials</td>
<td>None known.</td>
</tr>
</tbody>
</table>

7.3. Specific end use(s)

No additional information available

**SECTION 8: Exposure controls/personal protection**

8.1. Control parameters

8.2. Exposure controls

<table>
<thead>
<tr>
<th>Personal protective equipment</th>
<th>Avoid all unnecessary exposure.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hand protection</td>
<td>Wear protective gloves.</td>
</tr>
<tr>
<td>Eye protection</td>
<td>Chemical goggles or safety glasses.</td>
</tr>
<tr>
<td>Respiratory protection</td>
<td>Wear appropriate mask.</td>
</tr>
<tr>
<td>Other information</td>
<td>Do not eat, drink or smoke during use.</td>
</tr>
</tbody>
</table>

**SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Solid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Crystalline powder.</td>
</tr>
<tr>
<td>Molecular mass</td>
<td>74.54 g/mol</td>
</tr>
<tr>
<td>Colour</td>
<td>White.</td>
</tr>
</tbody>
</table>
Potassium Chloride
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Odour : odorless.
Odour threshold : No data available
pH : No data available
pH solution : 5.4 - 8.6 5% @ 25°C
Relative evaporation rate (butylacetate=1) : No data available
Melting point : 770 °C
Freezing point : No data available
Boiling point : 1420 °C
Flash point : No data available
Self ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : No data available
Density : 1.987 g/cm³
Solubility : Soluble in water. Soluble in glycerol. Soluble in ethanol.
Water: 357 g/l
Ethanol: 0.4 g/100ml
Organic solvent:7.2 g/100ml glycerol
Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : Not applicable.
Oxidising properties : None.
Explosive limits : No data available

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
None.

10.2. Chemical stability
Not established.

10.3. Possibility of hazardous reactions
Not established.

10.4. Conditions to avoid
Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials
Strong acids. silver nitrate. Strong oxidizers.

10.6. Hazardous decomposition products
Hydrogen chloride. Potassium oxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Potassium Chloride ( \( \text{Cl}_2 \) )

<table>
<thead>
<tr>
<th>LD50 oral rat</th>
<th>2600 mg/kg</th>
</tr>
</thead>
</table>

Skin corrosion/iritation : Not classified
Serious eye damage/iritation : Not classified
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified

Based on available data, the classification criteria are not met
## Specific target organ toxicity (single exposure)
- Not classified

## Specific target organ toxicity (repeated exposure)
- Not classified

## Aspiration hazard
- Not classified

## Potential Adverse human health effects and symptoms
- Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

#### 12.1. Toxicity

<table>
<thead>
<tr>
<th>Compound</th>
<th>EC50 Daphnia 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Chloride (7447-40-7)</td>
<td>825 mg/l</td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Compound</th>
<th>Persistence and degradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Chloride (7447-40-7)</td>
<td>Not established.</td>
</tr>
</tbody>
</table>

#### 12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Compound</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Chloride (7447-40-7)</td>
<td>Not established.</td>
</tr>
</tbody>
</table>

#### 12.4. Mobility in soil

- No additional information available

#### 12.5. Other adverse effects

- Other information: Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

- Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.

#### 13.2. Ecology - waste materials

- Avoid release to the environment.

### SECTION 14: Transport information

#### 14.1. UN number

- Not applicable

#### 14.2. UN proper shipping name

- Not applicable

#### 14.3. Additional information

- Other information: No supplementary information available.

### Overland transport

- No additional information available

### Transport by sea

- No additional information available

### Air transport

- No additional information available

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

<table>
<thead>
<tr>
<th>Compound</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Chloride (7447-40-7)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
</tbody>
</table>

#### 15.2. International regulations

### CANADA

<table>
<thead>
<tr>
<th>Compound</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Chloride (7447-40-7)</td>
<td>Uncontrolled product according to WHMIS classification criteria</td>
</tr>
</tbody>
</table>
Potassium Chloride
Safety Data Sheet
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EU-Regulations
No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Not classified

Classification according to Directive 67/548/EEC or 1999/45/EC
Not classified

15.2.2. National regulations

Potassium Chloride (7447-40-7)
Not listed on the Canadian Ingredient Disclosure List

15.3. US State regulations
No additional information available

SECTION 16: Other information

Indication of changes : Revision - See : *
Other information : None.

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

HMIS III Rating
Health : 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability : 0 Minimal Hazard
Physical : 0 Minimal Hazard
Personal Protection : A

SDS US (GHS HazCom 2012)

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