



# Potassium Chloride

## Safety Data Sheet

According to U.S. Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations, according to Canada's Hazardous Products Regulation, February 11, 2015, and according to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No 453/2010.

Revision Date: 07/10/2018

Date of Issue: 11/14/2014

Version: 6.0

### SECTION 1: IDENTIFICATION

#### Product Identifier

**Product Form:** Substance

**Product Name:** Potassium Chloride

**Alternate Names:** Potassium Chloride, USP, EP, JP, NF/FCC; Pharma-K™; Pure K™; Kalii Chloridum

**Group Code:** 10

#### Intended Use of the Product

Food and Pharmaceutical Ingredient. For professional use only.

#### 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](http://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

Classification according to Regulation (EC) No. 1272/2008 (CLP). This substance is classified as not hazardous according to regulation (EC) No. 1272/2008 (CLP)

#### Label Elements

##### GHS Labeling

No labeling applicable

Labelling according to Regulation (EC) No. 1272/2008 (CLP). According EC directives or the corresponding national regulations the product does not have to be labelled.

##### Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

##### Unknown acute toxicity

No data available

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

Name	Product Identifier	%*	GHS Ingredient Classification
Potassium chloride	(CAS No) 7447-40-7	> 99	Not classified

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 if possible).

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**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Rinse immediately with plenty of water. Obtain medical attention if irritation develops or persists.

**Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

**Ingestion:** Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

### **Most Important Symptoms and Effects Both Acute and Delayed**

**General:** Not expected to present a significant hazard under anticipated conditions of normal use.

**Inhalation:** May cause respiratory irritation.

**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:** None expected under normal conditions of use.

### **Indication of Any Immediate Medical Attention and Special Treatment Needed**

If you feel unwell, seek medical advice (show the label where possible).

## **SECTION 5: FIRE-FIGHTING MEASURES**

### **Extinguishing Media**

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. 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:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Halogenated Compounds. Metal oxides.

### **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. Avoid breathing (dust).

#### **For Non-Emergency Personnel**

**Protective Equipment:** Use appropriate personal protective equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### **For Emergency Personnel**

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Stop leak if safe to do so. Ventilate area.

### **Environmental Precautions**

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

### **Methods and Materials for Containment and Cleaning Up**

**For Containment:** Contain and collect as any solid.

**Methods for Cleaning Up:** Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Dispose in a safe manner in accordance with local/national regulations. Contact competent authorities after a spill.

### **Reference to Other Sections**

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

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## SECTION 7: HANDLING AND STORAGE

### Precautions for Safe Handling

**Additional Hazards When Processed:** Follow all SDS/label precautions even after container is emptied because it may retain product residues.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Store in original container. Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from extremely high or low temperatures and incompatible materials.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.

### Specific End Use(s)

Food and Pharmaceutical Ingredient. For professional use only.

## 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. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Protective goggles. Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical safety goggles or safety glasses.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** In case of insufficient ventilation, wear suitable respiratory equipment.

**Environmental Exposure Controls:** Do not allow the product to be released into the environment.

**Consumer Exposure Controls:** Do not eat, drink or smoke during use

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

Physical State	: Solid
Appearance	: White granular material
Odor	: None
Odor Threshold	: Not available
pH	: 6.5 - 10.5
Evaporation Rate	: Not available
Melting Point	: 773 °C (1423.4 °F)
Freezing Point	: Not available
Boiling Point	: 1500 °C (2732 °F)
Flash Point	: Not flammable
Auto-ignition Temperature	: Not applicable
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not applicable
Lower Flammable Limit	: Not applicable

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<b>Upper Flammable Limit</b>	: Not applicable
<b>Vapor Pressure</b>	: Not available
<b>Relative Vapor Density at 20°C</b>	: Not available
<b>Relative Density</b>	: Not available
<b>Specific Gravity</b>	: 1.988 - 2
<b>Solubility</b>	: Water: 34 g/100ml at 20 °C (68 °F)
<b>Partition Coefficient: N-Octanol/Water</b>	: Not available
<b>Viscosity</b>	: Not applicable

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Hazardous reactions will not occur under normal conditions.

**Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Extremely high or low temperatures. Incompatible materials.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers.

**Hazardous Decomposition Products:** Thermal decomposition generates: Halogenated compounds. Metal oxides.

## 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:** 6.5 - 10.5

**Eye Damage/Irritation:** Not classified

**pH:** 6.5 - 10.5

**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/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:** None expected under normal conditions of use.

### Information on Toxicological Effects - Ingredient(s)

**LD50 and LC50 Data:**

<b>Potassium chloride (7447-40-7)</b>	
<b>LD50 Oral Rat</b>	2600 mg/kg

## SECTION 12: ECOLOGICAL INFORMATION

**Toxicity** Not classified

<b>Potassium chloride (7447-40-7)</b>	
<b>LC50 Fish 1</b>	1060 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
<b>EC50 Daphnia 1</b>	825 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>LC50 Fish 2</b>	750 (750 - 1020) mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
<b>EC50 Daphnia 2</b>	880 mg/l (Exposure time: 24 h - Species: Daphnia magna)

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**Persistence and Degradability** Not available

**Bioaccumulative Potential**

**Mobility in Soil** Not available

**Other Adverse Effects**

**Other Information:** Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

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

**Ecology - Waste Materials:** Avoid release to the environment.

## 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

Chemical Name (CAS No.)	CERCLA RQ	EPCRA 304 RQ	SARA 302 TPQ	SARA 313
Potassium chloride (7447-40-7)	Not applicable	Not applicable	Not applicable	No

**SARA 311/312** Not present

**US TSCA Flags** Not present

### US State Regulations

#### California Proposition 65

Chemical Name (CAS No.)	Carcinogenicity	Developmental Toxicity	Female Reproductive Toxicity	Male Reproductive Toxicity
Potassium chloride (7447-40-7)	No	No	No	No

### 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 NDSDL (Non-Domestic Substances List)

### International Inventories/Lists

Chemical Name (CAS No.)	Australia AICS	Turkey CICR	Korea ECL	EU EINECS	EU ELINCS	EU SVHC	EU NLP	Mexico INSQ
Potassium chloride (7447-40-7)	Yes	Yes	Yes	Yes	No	No	No	Yes
Chemical Name (CAS No.)	China IECSC	Japan ENCS	Japan ISHL	Japan PDSCl	Japan PRTR	Philippines PICCS	New Zealand NZIOC	US TSCA
Potassium chloride (7447-40-7)	Yes	Yes	No	No	No	Yes	Yes	Yes

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

Revision Date : 07/10/2018

#### Revision Summary

Sections	Change	Date Changed
3	Update product percentage information	07/10/2018
8	Text modification	07/10/2018
11	Text modification	07/10/2018
12	Text modification	07/10/2018
15	Text modification	07/10/2018

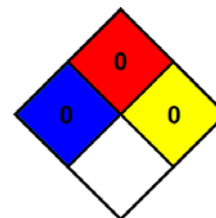
**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR).

#### GHS Full Text Phrases:

None

#### NFPA 704

**NFPA Health Hazard** : 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.  
**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** : 0 Minimal Hazard - No significant risk to health  
**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  
DOT – 49 CFR – US Department of Transportation – Code of Federal Regulations Title 49 – Transportation.  
EC – European Commission  
EC50 - Median effective concentration  
ECL - Korea Existing Chemicals List  
EINECS - European Inventory of Existing Commercial Chemical Substances  
ELINCS - European List of Notified Chemical Substances  
EmS - IMDG Emergency Schedule Fire & Spillage  
ENCS - 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  
ErC50 - EC50 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  
EU – European Union  
HCCL - Hazard Communication Carcinogen List  
HMIS – Hazardous Materials Information System  
ISHL - Japan Industrial Safety and Health Law  
LC50 - Median Lethal Concentration  
LD50 - Median Lethal Dose  
LOAEL - Lowest Observed Adverse Effect Level  
LOEC - Lowest-observed-effect Concentration  
NFPA 704 – National Fire Protection Association - Standard System for the Identification of the Hazards of Materials for Emergency Response  
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  
PEL - Permissible Exposure Limits  
PICCS - Philippine Inventory of Chemicals and Chemical Substances  
PDSCL - 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  
TLM - Median Tolerance Limit

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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

TLV - 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™.*



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