



# **Safety Data Sheet**

### 1. IDENTIFICATION

Product Identifier: Potassium Chloride Solutions

**Product Code(s):** P1016, P1033, P1034, P1068, CF1175

Synonyms: Potassium Salt Solution

Recommended Use: For manufacturing, industrial, and laboratory use only. Use as a solvent or as a laboratory

reagent.

**Uses Advised Against:** Not for food, drug, or household use.

**Supplier:** Rocky Mountain Reagents, Inc.

4621 Technology Drive, Golden, CO 80403 Phone: (303) 762-0800 Fax: (303) 762-1240

**Emergency Phone Number:** For health emergency, call poison control: (800) 222-1222.

### 2. HAZARDS IDENTIFICATION

Hazard Classifications: This product is classified as not hazardous under OSHA's Hazard Communication

Standard, 29 CFR 1910.1200 (HCS) and the United Nations' Globally Harmonized System of Classification and Labeling of Chemicals (GHS). However, all chemicals handled and

used in the workplace should be treated with caution.

Signal Word: Not applicable.

Hazard Statements: Not applicable.

Pictograms: Not applicable.

**Precautionary Statements:** 

**Prevention:** Not applicable.

Response: Not applicable.

Storage: Not applicable.

**Disposal:** Not applicable.

**Hazards Not Otherwise** 

Classified:

Not applicable.

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**Toxicity Statement:** Not applicable.

# 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Component	Common Name / Synonyms	CAS#	Chemical Formula	% by Weight
Water	Water	7732-18-5	H <sub>2</sub> O	74.6 – 99.3
Potassium Chloride	Chloride, Potassium Salt	7447-40-7	KCI	0.746 – 25.5

Trade Secret Statement: Not applicable.

### 4. FIRST AID MEASURES

First Aid Procedures:

**Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration. Call a physician if symptoms occur.

**Ingestion:** Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs,

keep head low so that vomit does not enter lungs. Never give anything by mouth to an unconscious person. Call a physician or poison control center if symptoms occur.

**Skin Contact:** Wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated

clothing and shoes. Wash clothing before reuse. Call a physician if symptoms occur.

Eye Contact: Check for and remove contact lenses, if present and easy to do. Immediately flush eyes with

gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Immediate medical attention is required. Call a physician if symptoms occur.

General Advice: Poison information centers in each state can provide additional assistance for scheduled

poisons. Ensure that those providing first aid and medical personnel are aware of the

material(s) involved and take precautions to protect themselves.

Symptoms and Effects: Irritation, coughing, sneezing, nausea, vomiting, diarrhea, muscle cramps. May be harmful if

swallowed, inhaled, or exposed to the eyes. May cause irritation to the skin.

Immediate Medical Care/

Special Treatment:

Get medical attention if feeling unwell or concerned. Treat symptomatically.

### 5. FIREFIGHTING MEASURES

Suitable Extinguishing Media: Water spray, dry powder, alcohol resistant foam, carbon dioxide.

Unsuitable Extinguishing Media: Do not use a solid (straight) water stream, as it may scatter and spread fire.

**Hazardous Combustion** 

**Products:** 

Potassium oxides, hydrogen chloride.

Specific Hazards: Excessive thermal conditions may cause decomposition and yield corrosive and/or toxic

fumes.

Special Protective Equipment/

As in any fire, wear MSHA/NIOSH-approved (or equivalent), self-contained, positive-

**Precautions for Firefighters:** pressure or pressure-demand breathing apparatus and full protective gear.

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## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Protective Equipment:

Isolate hazard area and keep unnecessary and unprotected personnel away from the area of the leak or spill. Wear appropriate personal protective equipment (see Section 8). Avoid contact with eyes, skin, and clothing.

**Emergency Procedures:** 

In case of chemical emergency, or if unsure how to address an accidental release, consult a professional (see Section 1).

**Methods for Containment:** 

Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements, or confined areas. Dike the spilled material, where this is possible. Product should not be released to the environment. Contain and recover waste when possible.

**Methods for Cleanup:** 

Absorb spill with an inert material (e.g. vermiculite, dry sand, earth, cloth, or fleece) and place in a non-combustible container for reclamation or disposal. Do not flush to sewer. Clean contaminated surface thoroughly. Residues from spills can be diluted with water. Never return spills in original containers for reuse. Clean up in accordance with all applicable regulations.

### 7. HANDLING AND STORAGE

Handling: Wear personal protective equipment (see Section 8). Avoid contact with skin, eyes, and

clothing. Do not ingest. When using, do not eat, drink, or smoke. Keep away from incompatible materials (see Section 10). Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Containers of this material may be hazardous when empty, as they retain product residues. Observe all warnings and

precautions listed for this product.

Storage: Store in a cool, dry, ventilated area. Store in a segregated and approved area away from

heat and incompatible materials (see Section 10). Store in original container. Keep containers tightly closed and upright. Keep away from food, drink, and animal foodstuffs. Keep out of the reach of children. Comply with all national, state, and local codes pertaining

to the storage, handling, dispensing, and disposal of this product.

### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Exposure Limits:** Water: No information found.

Potassium Chloride: No information found.

**Engineering Controls:** Ensure adequate ventilation. Ventilation rates should be matched to conditions. If

applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not

been established, maintain airborne levels to an acceptable level.

**Personal Protective Measures:** 

Eye/Face Protection: Wear safety glasses with side shields or goggles. Maintain approved eye wash station and

accessible rinse facilities in work area.

Skin Protection: Wear appropriate chemical resistant clothing (with long sleeves) and appropriate chemical

resistant gloves.

Respiratory Protection: An air-purifying, NIOSH-approved respirator with an organic vapor cartridge or canister may

be permissible under certain circumstances where airborne concentrations are expected to

exceed exposure limits. Use a positive-pressure, air-supplied respirator if there is any

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potential for an uncontrolled release, if exposure levels are unknown, or if any other circumstances exist where air-purifying respirators may not provide adequate protection.

Specific Requirements for Personal Protective **Equipment:** 

Ensure that glove material is compatible with this product. This information is available from

glove manufacturers.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Unless otherwise indicated, all properties are given at 25 °C and standard pressure.

Colorless, clear, transparent liquid. Appearance:

Odor: Odorless.

**Odor Threshold:** No information found.

74.55 as KCI Formula Weight: 7 at 25 °C pH:

**Melting/Freezing Point:** No information found. **Boiling Point/Range:** No information found. **Decomposition Temperature:** No information found.

Flash Point: Not applicable.

**Auto-ignition Temperature:** Not applicable. Not flammable. Flammability: Flammability/Explosive Limits: Not applicable.

Solubility: Miscible with water. No information found. Vapor Pressure: Vapor Density: No information found. Specific Gravity: 1.00 - 1.17 (Water = 1)

**Evaporation Rate:** No information found. No information found. Viscosity: **Partition Coefficient** 

(n-octanol/water):

No information found.

#### STABILITY AND REACTIVITY 10.

**Reactivity Data:** May be corrosive to metals.

Stable under normal conditions. **Chemical Stability:** 

Conditions to Avoid: Excessive heat, incompatible materials.

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

**Hazardous Decomposition** 

Products:

Potassium oxides, hydrogen chloride.

**Possibility of Hazardous** 

Reactions:

May react vigorously or violently with the incompatible materials listed above. Excessive

thermal conditions may yield hazardous decomposition products listed above.

**Hazardous Polymerization:** Will not occur.

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# 11. TOXICOLOGICAL INFORMATION

**Routes of Exposure:** Inhalation, ingestion, skin contact, eye contact.

Acute Effects: May be harmful if swallowed, inhaled, or exposed to the eyes. May cause irritation to the

skin.

Chronic Effects: No information found.

**Toxicological Data:** Water: Not applicable.

Potassium Chloride: LD<sub>50</sub> Oral, Rat: 2600 mg/kg

Symptoms of Exposure: Irritation, coughing, sneezing, nausea, vomiting, diarrhea, muscle cramps.

Carcinogenic Effects: No component of this product is considered to be a carcinogen by IARC, ACGIH, NTP, or

OSHA.

### 12. ECOLOGICAL INFORMATION

Ecotoxicological Data: Water:

Not applicable.

Potassium Chloride:

EC<sub>50</sub>, Water Flea (Daphnia magna): 440 mg/L 48 h LC<sub>50</sub>, Fathead Minnow (Pimphales promelas): 880 mg/L 96 h

Persistence and Degradability: This product is readily biodegradable and unlikely to bioaccumulate.

Environmental Effects: Not expected to be hazardous to the environment. However, the possibility of an

environmental hazard cannot be excluded in the event of unprofessional handling or

disposal.

### 13. DISPOSAL INFORMATION

**Disposal Instructions:** Dispose of this material and its container to an approved waste collection point. Minimize

exposure to product waste (see Section 8). Do not dispose unused waste down drains or into sewers. All wastes must be handled in accordance with local, state, and federal

regulations.

**Contaminated Packaging:** Because containers retain product residue, follow label warnings even after container is

emptied. Offer rinsed packaging material to local recycling facilities.

Waste Codes: No information found.

# 14. TRANSPORT INFORMATION

**DOT:** Not regulated.

**Environmental Hazard** 

Regulations:

No information found.

Other Transport Precautions: No information found.

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# 15. REGULATORY INFORMATION

### U.S. Federal Regulations:

OSHA: This product is not considered a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

**TSCA Inventory:** All components of this product are on the U.S. TSCA Inventory.

U.S. EPCRA (SARA Title III):

**Section 302:** No information found.

**Sections 311/312:** 

Hazard Category	List (Yes/No)	
Section 311 – Hazardous Chemical	No	
Immediate Hazard	No	
Delayed Hazard	No	
Fire Hazard	No	
Pressure Hazard	No	
Reactivity Hazard	No	

Section 313: No information found.

CERCLA Reportable Quantities: No information found.

### International Inventories:

Country or Region	Inventory Name	On Inventory (Yes/No)*
Australia	Australian Inventory of Chemical Substances (AICS)	N/A
Canada	Domestic Substances List (DSL)	N/A
Canada	Non-Domestic Substances List (NDSL)	N/A
China	Inventory of Existing Chemical Substances in China (IECSC)	N/A
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	N/A
Europe	European List of Notified Chemical Substances (ELINCS)	N/A
Japan	Inventory of Existing and New Chemical Substances (ENCS)	N/A
Korea	Existing Chemicals List (ECL)	N/A
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	N/A

<sup>\*</sup>A "Yes" indicates that the listed component(s) of this product comply with the inventory requirements administered by the governing country(s).

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### 16. OTHER INFORMATION

Disclaimer:

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**Reason for Revision:** Update of Section 9 over 10/15/2015 version.

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