Potassium Chloride



Section 1 Product Description

Product Name: Potassium Chloride

Recommended Use: Science education applications
Synonyms: Potassium Muriate, Chloride of Potash
Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

WARNING

Causes eye irritation. Harmful to aquatic life.

GHS Classification:

Serious Eye Damage/Eye Irritation Category 2B, Hazardous to the aquatic environment - Acute Category 3

Section 3 Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Potassium Chloride
 7447-40-7
 100

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin Contact: After contact with skin, wash immediately with plenty of water.

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

Section 5 Firefighting Procedures

Extinguishing Media: Use dry chemical, CO2 or appropriate foam.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: None Known

Hazardous Combustion Products: Chlorine containing gases

Section 6 Spill or Leak Procedures

Steps to Take in Case Material Is

No adverse health affects expected from the clean-up of spilled material. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS.

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Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7

Handling and Storage

Handling: Wash thoroughly after handling. Avoid release to the environment. Keep container tightly closed in a cool, well-ventilated place. Storage:

Storage Code: Green - general chemical storage

Section 8 Protection Information

> **ACGIH OSHA PEL**

(STEL) **Chemical Name** (TWA) (STEL) (TWA) Potassium Chloride N/A N/A N/A N/A

Control Parameters

Engineering Measures: No exposure limits exist for the constituents of this product. General room ventilation

might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use. Provide general room

exhaust ventilation if symptoms of overexposure occur as explained Section 11. A

respirator is not normally required.

Respirator Type(s): None required where adequate ventilation is provided. If airborne concentrations are

above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection. Wear chemical splash goggles when handling this product. Have an eye wash station

available.

Skin Protection: Not normally considered a skin hazard. Where use can result in skin contact, practice

> good personal hygiene and wear a barrier cream and/or impervious surgical style gloves. Wash hands and other exposed areas with mild soap and water before eating, drinking,

and when leaving work.

Gloves: No information available

Section 9

Eye Protection:

Physical Data

Formula: KCI

Molecular Weight: 74.55 g/mol **Appearance:** White Crystals

Odor: None

Odor Threshold: No data available

pH: No data available Melting Point: 771 C **Boiling Point: 1413 C**

Flash Point: No data available

Flammable Limits in Air: No data available

Vapor Pressure: No data available

Evaporation Rate (BuAc=1): No data available

Vapor Density (Air=1): No data available

Specific Gravity: 1.98 Solubility in Water: Soluble

Log Pow (calculated): No data available Autoignition Temperature: No data available **Decomposition Temperature:** No data available

Viscosity: No data available Percent Volatile by Volume: 0%

Section 10

Reactivity Data

Reactivity: Not generally reactive under normal conditions.

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: None known. **Incompatible Materials:** Bromine Trifluoride **Hazardous Decomposition Products:** Chlorine containing gases

Hazardous Polymerization: Will not occur

Section 11

Data Toxicity

Routes of Entry Ingestion.

Cardiac Arrhythmia, Seizures, Musculoskeletal system, Impaired Kidney Function Symptoms (Acute):

Delayed Effects: No data available

Acute Toxicity:

Chemical Name Oral LD50 **CAS Number Dermal LD50** Inhalation LC50

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Potassium Chloride 7447-40-7 Oral LD50 Mouse Not determined Not determined

1500 mg/kg Oral LD50 Rat 2600 mg/kg

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHAPotassium Chloride7447-40-7Not listedNot listedNot listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

Target Organ Effects:

Acute: Cardiovascular system
Chronic: No data available

Section 12 Ecological Data

Overview: Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.

Mobility: This material is expected to have very high mobility in soil. It does not absorb to most soil types.

Persistence: Dissolved into water

Bioaccumulation: Bioconcentration is not expected to occur.

Degradability: Does not biodegrade readily.

Other Adverse Effects: No data

Chemical Name CAS Number Eco Toxicity

Potassium Chloride 7447-40-7 Aquatic LC50 (96h) Bluegill Sunfish 1060 MG/L

Aquatic EC50 (48h) Daphnia 825 MG/L

72 HR EC50 DESMODESMUS SUBSPICATUS 2500 MG/L

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

Section 14 Transport Information

Ground - DOT Proper Shipping Name:

Not regulated for transport by US DOT.

Air - IATA Proper Shipping Name:

Not regulated for air transport by IATA.

Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name CAS § 313 Name § 304 RQ CERCLA RQ § 302 TPQ CAA 112(2)

Number TQ

Potassium Chloride 7447-40-7 No No No No No No

Section 16 Additional Information

Revised: 09/09/2015 Replaces: 09/03/2014 Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

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ACGIH	American Conference of Governmental Industrial Hygienists	NTP OSHA	National Toxicology Program Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

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