PURITAN PRODUCTS

Effective Date: 08/01/13
Replaces Revision: 01/01/13

NON-EMERGENCY TELEPHONE
610-866-4225

24-HOUR CHEMTREC EMERGENCY TELEPHONE
800-424-9300

SDS – SAFETY DATA SHEET

1. Identification

Product Identifier: POTASSIUM CHLORIDE (CONDUCTIVITY STANDARDS)
Synonyms: None
Chemical Formula: Not applicable to mixtures
Recommended Use of the Chemical and Restrictions On Use: Laboratory Reagent
Manufacturer / Supplier: Puritan Products; 2290 Avenue A, Bethlehem, PA 18017 **Phone:** 610-866-4225
Emergency Phone Number: 24-Hour Chemtrec Emergency Telephone 800-424-9300

2. Hazard(s) Identification

Classification of the Substance or Mixture:
Acute toxicity, Oral (Category 5)
Eye irritation (Category 2B)
Acute aquatic toxicity (Category 3)

Risk Phrases:
R36: Irritating to eyes.

Label Elements:

Trade Name: POTASSIUM CHLORIDE (CONDUCTIVITY STANDARDS)

Signal Word: Warning

Pictogram: None

Hazard Statements:
H303: May be harmful if swallowed.
H320: Causes eye irriation.
H402: Harmful to aquatic life.

Precautionary Statements:
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

3. Composition / Information on Ingredients

CAS Number: Not applicable to mixtures
EC Number: Not applicable to mixtures
Molecular Weight: Not applicable to mixtures

Ingredient	CAS Number	EC Number	Percent	Hazardous	Chemical Characterization
Potassium Chloride	7447-40-7	231-211-8	0.1 – 13%	Yes	Substance
Water	7732-18-5	231-791-2	87 – 99.9%	No	Mixture

4. First-aid Measures

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give Oxygen.

Ingestion: DO NOT induce vomiting unless directed by a physician. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact: Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire-fighting Measures

Fire: Not considered to be a fire hazard.

Explosion: Not considered to be an explosion hazard.

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

Environmental Precautions and Methods and Materials for Containment and Cleaning Up: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

7. Handling and Storage

Precautions for Safe Handling and Conditions for Safe Storage, Including Any Incompatibilities: Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid.) Observe all warnings and precautions listed for the product.

8. Exposure Controls / Personal Protection

Airborne Exposure Limits:
OSHA Permissible Exposure Limit (PEL): None listed
ACGIH Threshold Limit Value (TLV): None listed

Ventilation System: A system of local and / or general exhaust is recommended to keep employee exposures low. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved): For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerin, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in Oxygen-deficient atmospheres.

Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection: Use chemical safety goggles and / or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance: Clear, colorless liquid
Odor: Odorless
Odor Threshold: No information found
pH: ~7
% Volatiles by volume @ 21C (70F): 0
Melting Point: 770C (1,418F) (Potassium Chloride)
Boiling Point / Boiling Range: 1,500C (2,732F) (Potassium Chloride)
Flash Point: No information found
Evaporation Rate (BuAc=1): No information found
Flammability: Not applicable
Upper / Lower Flammability or Explosive Limits: Not applicable
Vapor Pressure (mm Hg): No information found
Vapor Density (Air=1): No information found
Relative Density: 1.98 g/mL at 25C (77F) (Potassium Chloride)
Solubility: Soluble (Potassium Chloride)
Partition Coefficient: n-octanol / water: No information found
Auto-ignition Temperature: Not applicable
Decomposition Temperature: No data available
Viscosity: No information found

10. Stability and Reactivity

Reactivity and / or Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions and Conditions to Avoid: Incompatible materials.

Incompatible Materials: Bromine Trifluoride; Potassium Permanganate plus Sulfuric Acid.

Hazardous Decomposition Products: Hazardous decomposition products formed under fire conditions. - Hydrogen Chloride gas, Potassium Oxides

11. Toxicological Information

Emergency Overview: CAUTION! CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. MAY BE HARMFUL IF SWALLOWED.

Potential Health Effects:

Inhalation: Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath.

Ingestion: Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea. May produce weakness and circulatory problems. May affect heart. In severe cases, ingestion may be fatal.

Skin Contact: Contact with dry material causes irritation. In aqueous solution, it is a strong caustic and as such may have corrosive effects on the skin.

Eye Contact: Causes extreme irritation, redness, pain and possibly corneal damage.

Chronic Exposure: A chronic dermatitis may follow repeated contact with this substance.

Aggravation of Pre-existing Conditions: No information found.

Specific Target Organ Toxicity - Single Exposure (Globally Harmonized System:) No data available.

Specific Target Organ Toxicity - Repeated Exposure (Globally Harmonized System:) No data available.

Numerical Measures of Toxicity: Cancer Lists: NTP Carcinogen

Ingredient	Known	Anticipated	IARC Category
Potassium Chloride (7447-40-7)	No	No	None
Water (7732-18-5)	No	No	None

Acute Toxicity:
Oral rat LD50: 2600 mg/kg

12. Ecological Information

Ecotoxicity:
For Potassium Chloride:
Toxicity to fish LC50: Pimephales promelas (fathead minnow) - 880 mg/l - 96 h
mortality NOEC: Pimephales promelas (fathead minnow) - 500 mg/l - 7 d
mortality LOEC: Pimephales promelas (fathead minnow) - 1,000 mg/l - 7 d
Toxicity to daphnia and other aquatic invertebrates EC50: Daphnia magna (Water flea) - 83 mg/l - 48 h
Harmful to aquatic life.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Land Transport ADR/RID and GGVS/GGVE (Cross Border / Domestic)
Not regulated

Maritime Transport IMDG/GGVSea
Not regulated

Air Transport ICAO-TI and IATA-DGR
Not regulated

15. Regulatory Information

Chemical Inventory Status – Part 1

Ingredient	TSCA	EC	Japan	Australia
Potassium Chloride (7447-40-7)	Yes	Yes	Yes	Yes
Water (7732-18-5)	Yes	Yes	Yes	Yes

Chemical Inventory Status – Part 2

Ingredient	Korea	Canada		Phil.
		DSL	NDSL	
Potassium Chloride (7447-40-7)	Yes	Yes	No	Yes
Water (7732-18-5)	Yes	Yes	No	Yes

Federal, State & International Regulations - Part 1

	SARA 302		SARA 313	
Ingredient	RQ	TPQ	List Chemical	Catg.
Potassium Chloride (7447-40-7)	No	No	No	No
Water (7732-18-5)	No	No	No	No

Federal, State & International Regulations - Part 2

	RCRA		TSCA
Ingredient	CERCLA	261.33	8(d)
Potassium Chloride (7447-40-7)	No	No	No
Water (7732-18-5)	No	No	No

Chemical Weapons Convention: No		**TSCA 12(b):** No		**CDTA:** No
SARA 311/312:	**Acute:** Yes	**Chronic:** Yes	**Fire:** No	**Pressure**: No
Reactivity: No		Mixture / Liquid		

Australian Hazchem Code: Not classified

Poison Schedule: None allocated

16. Other Information

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