

Vernier Software & Technology  
**Material Safety Data Sheet**

**D.O. Probe Filling solution, 0.1 molar KCl (Potassium Chloride)**

**Section 1—Identification**

Product name: Potassium Chloride Electrolyte  
Synonyms: Potassium monochloride  
Chemical family: Metal salt mixture, aqueous

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**Section 2—Ingredients**

Chemical: KCl in water

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**Section 3—Physical data**

Boiling point: 100° C  
% volatile: None  
Solubility in Water: 23.8% at 20° C  
Spec. Gr. (H<sub>2</sub>O=1): 1.1  
Freezing point: 2° C  
Evaporation rate: Not Applicable  
Appearance: Clear, colorless liquid.  
Other: Strong saline taste

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**Section 4—Fire and explosion hazard data**

No fire or explosion hazard

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**Section 5—Health data**

OSHA: Not established

**A. Animal toxicity—oral**

LD50                      Mouse: 383 mg/kg  
                             Rat: 2600 mg/kg  
                             Pig: 2500 mg/kg  
LC50                      No data

**B. Effects of exposure**

**Acute effects:**

Ingestion: Large quantities may cause GI irritation, vomiting, weakness, and circulatory problems.  
Skin contact: May cause irritation, redness or rash.  
Eye contact: Causes irritation, redness, tearing.  
Inhalation: May cause lung or nasal irritation.

**Aggravation of**

Medical Conditions: None known.

Most likely route of entry: Ingestion.

**Chronic effects:**

Ingestion: None known  
Skin contact: None known  
Eye contact: None known  
Inhalation: None known  
Other: None known

Carcinogenicity: NPT—No    IARC—No    OSHA—No    EPA—No

### C. Emergency and First Aid Procedures

Ingestion: No data available but if one ingests large amounts, seek medical attention.

Skin contact: Remove contaminated clothing and flood skin with water.

Eye contact: Immediately flush eyes with large amounts of water ensuring that area under the eyelids are flushed.

Inhalation: No data.

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### Section 6—Reactivity

Incompatibility: Bromine trifluoride, potassium permanganate plus sulfuric acid.

Hazardous decomposition products: Potassium oxides, chlorine

Conditions to avoid: No data.

Stability: Stable.

Hazardous polymerization: Will not occur.

Other: No data.

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### Section 7—Environmental Information

RCRA Code: None

TSCA registered: Yes

Spill and leak procedures: Flush to drain.

Waste disposal: Consult State, local or EPA regulations for waste disposal.

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### Section 8—Protection information

Ventilation requirements: None

Respiratory protection: None

Protective gloves: Rubber

Eye/face protection: ANSI approved safety goggles

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### Section 9—Special precautions

Handling/storage: Keep container closed when not in use. Wash hands after handling container. Do not ingest.

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### Section 10—Comments

Warning, may cause gastrointestinal irritation.

Employers should use this information only as a supplement to other information gathered by them and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this MSDS or in combination with any other product or process is the responsibility of the user.



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