

# Material Safety Data Sheet

## Section 1 – Chemical Product and Company Identification

Catalog Numbers: CDSA-45000  
Product Identity: Conductivity Std., 45,000 umho/cm

**Chemical Family:** Not Applicable  
**Synonyms:** Not Applicable  
**Recommended Use:** Laboratory chemicals

**Issue Date:** 04/02/09  
**Revision Date:** 08/10/10

## Section 2 – Hazard Identification

**Emergency Overview:** Non-flammable, non-corrosive, non-toxic. Does not present significant health hazards. Wash areas of contact with water.

**Appearance:** Clear, colorless liquid                      **Odor:** Odorless

**Target Organs:** Eyes, skin

**Potential Health Effects/ Routes of Exposure:**

**Eyes:** May cause slight irritation.

**Skin:** May cause slight irritation.

**Ingestion:** Large doses may cause upset stomach.

**Inhalation:** Not likely to be a hazard.

**Chronic Effect / Carcinogenicity:** None (IARC, NTP, OSHA)

**Aggravated Medical Conditions** No information available

These chemicals are not considered hazardous by OSHA.

See section 11 for toxicological information. See section 12 for potential environmental effects.

## Section 3 – Composition, Information on Ingredients

Potassium Chloride, CAS# 7447-40-7, < 3% w/v  
Water, purified, CAS# 7732-18-5, >97% w/v

## Section 4 – First Aid

**Eyes:** Immediately flush eyes with water for at least 15 minutes. Immediately get medical assistance.

**Skin:** Flush with water for 15 minutes. Get medical assistance if irritation develops.

**Ingestion:** DO NOT induce vomiting. Dilute with water or milk. Get medical assistance.

**Inhalation:** Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

**Notes to Physician** Treat symptomatically.

## Section 5 – Fire Fighting Measures

**Flash Point:** Not Applicable    **Autoignition Temperature** No information available.

**Explosion Limits Upper** No data available                      **Lower** No data available

**Extinguishing Media:** Use means suitable to extinguishing surrounding fire.

**Unsuitable Extinguishing Media:** No information available

**Fire & Explosion Hazards:** Not considered to be a fire or explosion hazard.

**Fire Fighting Instructions / Equipment:** Use normal procedures. Use protective clothing. Use NIOSH-approved breathing equipment.

**Hazardous Combustion Products:** No information Available

**Sensitivity to mechanical impact** No information available.

**Sensitivity to static discharge** No information available.

**Specific Hazards Arising from the Chemical:** No information available  
**NFPA Rating:** (estimated) Health: 1; Flammable: 0; Reactivity: 0

### **Section 6 – Accidental Release Measures**

**Personal Precautions** Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

**Environmental Precautions** Not relevant considering the small amounts used.

**Methods for Containment and Clean Up** Absorb with suitable material. Always obey local regulations. Always obey local regulations.

### **Section 7 – Handling and Storage**

**Handling:** Wash hands after handling. Avoid contact with skin and eyes.

**Storage:** Protect from freezing and physical damage.

### **Section 8 – Exposure Controls, Personal Protection**

Potassium Chloride, CAS# 7447-40-7, ACGIH TLV: NA, OSHA PEL: NA  
Water, purified, CAS# 7732-18-5, ACGIH TLV: NA, OSHA PEL: NA

**Engineering Measures/ General Hygiene:** Normal ventilation is adequate. Ensure eyewash and safety showers are available.

**Personal Protection Equipment: Skin Protection:** Chemical resistant gloves.

**Eye/Face Protection:** Safety Glasses or goggles. **Respiratory Protection:** Normal ventilation is adequate

### **Section 9 – Physical and Chemical Properties**

**Appearance/Physical State:** Clear, colorless liquid

**Odor:** Odorless

**Boiling Point:** Approx 100.1C

**Melting Point:** Approx (-6)-0 C

**Vapor Density:** No Information Available

**Evaporation Rate:** No Information Available

**pH:** Not Available

**Flammability:** No Information Available

**Solubility:** Infinite  
available

**Relative Density:** No Information Available

**% Volatility:** No Information Available

**Specific Gravity:** 1-1.01

**Vapor Pressure:** No Information Available

**Flash Point:** Not Applicable

**Coefficient of water/oil distribution:** Not Available

**Odor Threshold:** Not Available

**Decomposition Temperature:** No Information Available

**Partition Coefficient n-octanol/water:** No data

**Molecular Weight:** Not available

### **Section 10 – Stability and Reactivity**

**Chemical Stability:** Stable under normal conditions of use and storage.

**Incompatible Materials** Strong Oxidizing agents, Lithium, Bromine, Trifluoride.

**Conditions to Avoid:** No Information Available.

**Hazardous Decomposition Products:** Oxides of Sodium and fumes of Chloride.

**Hazardous Polymerization:** Does not occur

**Hazardous Reactions:** None under normal processing.

### **Section 11 – Toxicological Information**

**Routes of Exposure/Symptoms/Corrosiveness** – See Section 2

LD50 orl-rat: 3020 mg/kg LC50 inhalation-rat: Not Available

**Irritation:** No Information Available

**Toxicologically Synergistic:** No Information Available

#### **Chronic Exposure**

**Carcinogenicity** No Information Available

**Sensitization** No information available.

**Mutagenic Effects** No information available.

**Reproductive Effects** No information available.

**Developmental Effects (Immediate/Delayed)** No information available.

**Teratogenicity** No information available.

**Other Adverse Effects** No Information Available.

**Endocrine Disruptor Information** No information available

## **Section 12 – Ecological Information**

**Ecotoxicity:** Not Available.

**Persistence and Degradability:** No Information Available

**Mobility:** No Information Available

**Bioaccumulation/ Accumulation:** No Information Available

## **Section 13 – Disposal Considerations**

**Waste Disposal/Waste Disposal of Packaging:** Dilute with water.

All chemical waster generators must determine whether a discarded chemical is classified as hazardous waste. Comply with all local, state, and federal regulations.

## **Section 14 – Transport Information**

**DOT - Not Regulated**

## **Section 15 – Regulatory Information (not meant to be all inclusive)**

**OSHA Status:** These chemicals are not considered hazardous by OSHA.

**Canada DSL:** These chemicals are listed on the Canada DSL list.

**TSCA:** The components of this solution are listed on the TSCA Inventory

**SARA Title III Section 313:** Not Applicable

**RCRA Status:** Not Applicable

**CERCLA Reportable Quantity:** Not Applicable

**WHMIS:** Not Applicable.

## **Section 16 – Additional Information**

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