

# Material Safety Data Sheet

Chloride Ion Calibration Solution

1 ppm to 10,000 ppm

October 2013

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## 1. Product Identification:

Chloride Ion Calibration Solution, 1ppm – 10,000ppm

ECD Part # 2010453, 2010454, 2010460, 2010160, 2010165, 2010167

### CAS No:

Potassium Chloride: 7447-40-7

### Molecular Weight:

Potassium Chloride: 74.453 g

### Chemical Formula:

0.2% KCl Solution < 2.1 g/l KCl in deionized water

### Product Codes:

ECD Part # 2010453, 2010454, 2010460, 2010160, 2010165, 2010167

### Manufacture By:

Electro-Chemical Devices, Inc.

1681 Kettering

Irvine, CA 92614

Phone: (800) 729-1333

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## 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	LD 50 mg/kg
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Potassium Chloride (KCl)	7447-40-7	< 0.22%	2500 mg/kg (ORL-RAT)
Deionized Water (H <sub>2</sub> O)	7732-18-5	Balance	190,000 (IPR-MUS)

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## 3. Hazards Identification

Appropriate use is unlikely to cause any hazards.

**Potential Health Effects:**

**Eyes:** Rinse thoroughly with water.

**Skin:** Wash with water.

**Ingestion:** Call for medical aid if not feeling well.

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**Principal Hazardous Components:** none

**TLV units:**

**PEL units:**

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**4. First Aid Measures**

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

**Eyes** - In case of contact with eyes, rinse immediately with plenty of water

**Skin** - After contact with skin, wash immediately with plenty of water

**Ingestion** - If swallowed seek medical advice if not feeling well.

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**5. Fire Fighting Measures**

**Flash Point (Method Used):** not flammable

**NFPA Rating:**

Health: 0

Fire: 0

Reactivity: 0

**Extinguisher Media:** Use media suitable to extinguish surrounding fire.

**Flammable Limits in Air % by Volume:** N/A

**Auto ignition Temperature:** N/A

**Special Firefighting Procedures:** N/A

**Unusual Fire and Explosion Hazards:** N/A

**6. Accidental Release Measures**

**Steps to take in Case Material Is Released or Spilled:** Wash with water

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**7. Handling and Storage**

Keep in a tightly closed container, stored in a cool, dry, ventilated area.

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## **8. Exposure Controls/Personal Protection**

### **Airborne Exposure Limits:**

None established.

### **Ventilation System:**

A system of local and/or general exhaust.

### **Personal Respirators (NIOSH Approved):**

None needed under normal conditions.

### **Skin Protection:**

Protective Gloves: Natural rubber, Neoprene, PVC or equivalent.

### **Eye Protection:**

Use chemical safety goggles.

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## **9. Physical and Chemical Properties**

### **Appearance:**

Clear liquid

### **Odor:**

Odorless.

### **Solubility:**

Fully miscible

### **Specific Gravity:**

1.0 (H<sub>2</sub>O = 1)

### **pH:**

5-8 pH

### **% Volatiles by volume @ 21C (70F):**

0

### **Boiling Point:**

100°C

### **Melting Point:**

0°C

### **Vapor Density (Air=1):**

No information found.

**Vapor Pressure (mm Hg):**

No information found.

**Evaporation Rate (BuAc=1):**

No information found.

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**10. Stability and Reactivity****Stability:**

Stable under ordinary conditions of use and storage.

**Hazardous Decomposition Products:**

none

**Hazardous Polymerization:**

Will not occur.

**Incompatibilities:**

none

**Conditions to Avoid:**

none

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**11. Toxicological Information**

**Toxicity Data:** N/A

**Effects of Overexposure:**

**Acute:** N/A

**Chronic:** N/A

**Conditions Aggravated by Overexposure:** none

**Target Organs:** N/A

**Primary Route(s) of Entry:** ingestion.

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**12. Ecological Information**

**EPA Waste Numbers** N/A

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**13. Disposal Considerations**

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.

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#### 14. Transport Information

**DOT Proper Shipping Name:** None

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#### 15. Regulatory Information N/A

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#### 16. Other Information

**NFPA Ratings:** Health: **0** Flammability: **0** Reactivity: **0**

**Label Hazard Warning:** N/A

**Label Precautions:** N/A

**Label First Aid:** N/A

**Product Use:**

Laboratory Reagent.

**Revision Information:**

MSDS 2010460 rev. A,

MSDS 2010453 rev. A,

MSDS 2010454 rev. A,