

# Material Safety Data Sheet



**Subject: K0077 Saturated Calomel Reference Electrode**

## Section 1: Product Identification

K0077 Saturated Calomel Reference Electrode

## Section 2: Composition/Information on Ingredients

Metallic Mercury, Mercury (I) Chloride, Potassium Chloride

MF: Hg, Hg<sub>2</sub>Cl<sub>2</sub>, KO

CAS #: [7439-97-6], [1 0112-91-1], [7447-40-7]

Synonyms: Mercurous Chloride, Calomel

## Section 3: Hazards Identification

Mercury Vapor TTL 0.05 Mg/M<sup>3</sup>, Mercury (I) chloride is harmful if ingested, absorbed through the skin or inhaled.

The sealed electrode only poses a problem if broken or opened.

## Section 4: First Aid Measures

In case of contact, wash hands with soap and water, flush eyes immediately with copious amounts of water, consult a physician.

## Section 5: Fire Fighting Measures

Not applicable

## Section 6: Accidental Release Measures

If glass envelope is broken, sweep up debris wearing gloves to prevent getting cut and contact with chemicals. Sweep up and store in a container for proper disposal of mercury. Consult local government agencies for suggested procedure.

## Section 7: Handling and Storage

Store in a box to prevent breakage.

## Section 8: Exposure Controls/Personal Protection

There is virtually no exposure to mercury or mercury chloride with the glass envelope intact. Potassium chloride solution is only harmful if gotten in the eyes. Wash hands after contact with the liquid. Avoid breaking the electrode.

## Section 9: Physical and Chemical Properties

Mercury is a metal-appearing liquid; mercury chloride is a white powder, and potassium chloride is a water-like solution. These components have no odor, pH is near 5-7; vapor pressure and density have not been determined; boiling point of potassium chloride water solution is slightly above 100°C. The solids are insoluble in water.

## Section 10: Stability and Reactivity

The electrode is stable.

## Section 11: Toxicological Information

N/A

## Section 12: Ecological Information

N/A

### **Section 13: Disposal Considerations**

Mercury and Mercury (I) Chloride should be disposed of as recommended by local EPA rules. Mercury can be sent to recycle companies.

### **Section 14: Transport Information**

N/A

### **Section 15: Regulatory Information**

N/A

### **Section 16: Other Information**

N/A

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