Section 1: Product Identification

K0077 Saturated Calomel Reference Electrode

Section 2: Composition/Information on Ingredients

Metallic Mercury, Mercury (I) Chloride, Potassium Chloride
MF: Hg, Hg₂Cl₂, 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/M³, 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

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL-INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. KOSLOW SCIENTIFIC COMPANY SHALL NOT BE LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. THE LISTED HAZARDS APPLY TO THE SMALL, GLASS ENCLOSED QUANTITY OF THE HAZARDOUS COMPONENTS. LARGER AMOUNTS OR HIGHER CONCENTRATIONS MAY HAVE A HIGHER RISK.

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