

# MATERIAL SAFETY DATA SHEET

## SECTION I - SUBSTANCE IDENTIFICATION

**Product Name:** CG-HG(K), CE-HG(K), SG-HG(K)

**Formula:** C + KI3

**CAS Number:** 7440-44-0 (Carbon)

**Chemical Name:** Mercury Carbon, HG Carbon, Activated Carbon/Charcoal impregnated with potassium tri-iodide

## SECTION II - HAZARDOUS INGREDIENTS

This material is typically 95% activated carbon and 5% KI3. There are no established PEL, TWA or TLV values for this material. Caution should be taken for respirable dust. The ACGIH TWA for respirable dust is 2.5 mg/m3. This product has no known carcinogenic properties.

## SECTION III - PHYSICAL DATA

**Description:** Odorless black solid, granule, pellet, or flake.

**Vapor Pressure:** N/A

**Boiling Point:** N/A

**Volatile Percent:** N/A

**Vapor Density:** N/A

**Solubility:** Carbon is not soluble

**Apparent Density:** 0.3 to 0.7 g/cc

**Stability:** Stable

**Incompatibility:** Avoid contact with strong oxidizers

## SECTION IV - FIRE & EXPLOSION HAZARDS

**Extinguishing Media:** Alcohol foam, CO2, dry chemical or water or as appropriate for surrounding fire

**Special Procedures:** None

**Decomposition Products:** CO may be formed in a fire.

**Flash Point:** N/A

**Unusual Fire & Explosion Hazards:** Contact with strong oxidizers may result in fire.

## SECTION V - HEALTH DATA

**Overexposure Effects:** This product is non-toxic through ingestion. It is non-toxic through skin absorption. It is not a primary skin irritant. No sensitization effects are known. It is non-toxic through inhalation. Due to its physical properties, carbon dust may irritate the respiratory system and produce eye irritation. Under normal conditions toxic concentrations should not exist. .

**First Aid:** In case of eye contact, flush with water for at least 15 minutes. Contact a doctor immediately. For inhalation, remove the person from the area. In case of ingestion, give large amounts of water or milk. Do not induce vomiting.

## SECTION VI - SPILL OR LEAK PROCEDURES

**Reportable Quantities:** No EPA RQ for this product. **If Spilled or Leaked:** Sweep/shovel up, neutralize and discard or repackage. Do not release to sewer or waterways.

**Waste Disposal Method:** Unused carbon may be neutralized and disposed of in refuse container.

## SECTION VII - HANDLING & STORAGE

**Protective Gloves:** Recommended.

**Eye Protection:** Safety glasses/goggles recommended.

**Other Protective Clothing:** None required.

**Ventilation:** Local exhaust to control dust.

**Respiratory Protection:** A high efficiency particulate filter is recommended for dust.

**Work/Hygienic Practices:** Wash thoroughly after handling.

## SECTION VIII - SPECIAL PRECAUTIONS

Wet activated carbon removes oxygen from air causing a severe hazard to workers in confined spaces. Sampling and work procedures for low oxygen levels should be taken to ensure ample oxygen availability, in accordance with all local, state and federal regulations.

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