MATERIAL SAFETY DATA SHEET

SECTION I - SUBSTANCE IDENTIFICATION

Product Name: SG-PH, CG-PH and ME-PH **Formula:** C + KOH
CAS Number: 7440-44-0 (Carbon), 1310-58-3 (Potassium Hydroxide)
Chemical Name: Carbon, Activated Carbon, Charcoal, Activated Charcoal impregnated with Potassium Hydroxide

SECTION II - HAZARDOUS INGREDIENTS

This material is typically 95% activated carbon and 5% potassium hydroxide. 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. Potassium hydroxide has an OSHA PEL of 2 mg/m3, ceiling & ACGIH TLV of 2 mg/m3, ceiling. This product has no carcinogenic properties.

SECTION III - PHYSICAL DATA

Description: Odorless black solid, granule, pellet, or flake.
Boiling Point: N/A **Volatile Percent:** N/A
Solubility: Carbon is not soluble, potassium hydroxide is soluble
Incompatibility: Avoid contact with strong oxidizers & concentrated acids.
Vapor Pressure: N/A
Vapor Density: N/A
Apparent Density: 0.3 to 0.7 g/cc
Stability: Stable

SECTION IV - FIRE & EXPLOSION HAZARDS

Flash Point: N/A **Extinguishing Media:** Water or as appropriate for surrounding fire
Special Procedures: None **Decomposition Products:** CO may be formed in a fire
Unusual Fire & Explosion Hazards: Contact with strong oxidizers may result in fire. Contact of potassium hydroxide with certain metals may liberate hydrogen gas that is flammable and readily forms explosive mixtures in air. Contact of potassium hydroxide with strong acids may generate heat or 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. Potassium hydroxide is a corrosive irritant to the eyes, skin, mucous membranes, and upper respiratory tract. Under normal conditions toxic concentrations should not exist. SARA listed (40 CFR 372.65).
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. Carbon may leach potassium hydroxide. 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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