

# MATERIAL SAFETY DATA SHEET

## SECTION I - SUBSTANCE IDENTIFICATION

**Product Name:** 4069 **CAS Number:** 7440-44-0 (carbon)  
**Formula:** C + TEDA or C + Klx or both **H.M.I.S. Rating:** H=1, F=1, R=1, PP=E  
**Chemical Name:** Carbon, Activated Carbon, Charcoal, Activated Charcoal, Nuclear Grade Carbon

## SECTION II - HAZARDOUS INGREDIENTS

This material is typically 95% activated carbon with 5% impregnation of TEDA and/or Klx. 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/m<sup>3</sup>. This product has no carcinogenic properties.

## SECTION III - PHYSICAL DATA

**Description:** Colorless black solid, granule, pellet, or flake.  
**Vapor Pressure:** N/A **Boiling Point:** N/A **Volatile Percent:** N/A  
**Vapor Density:** N/A **Solubility:** Not soluble **Apparent Density:** 0.3 to 0.7 g/cc  
**Stability:** Stable **Incompatibility:** Avoid contact with strong oxidizers.

## SECTION IV - FIRE & EXPLOSION HAZARDS

**Flash Point:** N/A **Extinguishing Media:** Water, foam, CO<sub>2</sub>, or dry chemical  
**Special Procedures:** None **Decomposition Products:** CO, CO<sub>2</sub> and NO<sub>x</sub> may be formed in a fire  
**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.  
**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. If swallowed do not induce vomiting. Dilute by giving water.

## SECTION VI - SPILL OR LEAK PROCEDURES

**Reportable Quantities:** No EPA RQ for this product.  
**If Spilled or Leaked:** Sweep/shovel up and discard or repackage.  
**Waste Disposal Method:** Unused carbon may have a high pH. Used products may contain hazardous chemicals or exhibit hazardous properties that may have to be considered to determine appropriate disposal method. This product must be disposed of in accordance with all local, State and Federal regulations.

## 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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