

Fisher Science Education  
6771 Silver Crest Road, Nazareth, PA 18064 (800) 955-1177  
Emergency Number: (800) 255-3924

## Material Safety Data Sheet

### Section 1 – Chemical Product and Company Identification

Catalog Numbers: S25243  
Product Identity: Charcoal, Bone Powder

**Chemical Family:** Not Applicable  
**Synonyms:** Activated Carbon; Activated Charcoal  
**Recommended Use:** Laboratory chemicals

Manufacturer's Name: AquaPhoenix Scientific, Inc., 9 Barnhart Dr., Hanover, PA 17331, (866) 632-1291  
Emergency Contact Number (24hr): Chemtel (800) 255-3924

**Issue Date:** 06/04/12  
**Revision Date:** 8/7/12, 11/14/12

### Section 2 – Hazard Identification

**Emergency Overview:** May cause eye and skin irritation. May cause lung damage. May cause central nervous system effects.

**Appearance:** Black solid                      **Odor:** Odorless

**Target Organs:** Lungs, mucous membrane.

**Potential Health Effects/ Routes of Exposure:**

**Eye:** Causes eye irritation, conjunctivitis and corneal damage.

**Skin:** May cause skin irritation.

**Ingestion:** May cause gastrointestinal irritation, nausea, vomiting and increased salivation.

**Inhalation:** May cause severe irritation to respiratory tract, gastrointestinal disturbances, albuminuria, gradual loss of weight, and increasing weakness. May cause lung damage. Olfactory fatigue may occur.

**Chronic Effect / Carcinogenicity:** May lead to decreased pulmonary function.

**Aggravated Medical Conditions** No information available

These chemicals are not considered hazardous by OSHA.

See section 11 for toxicological information. See section 12 for potential environmental effects.

### Section 3 – Composition, Information on Ingredients

Carbon, CAS# 7440-44-0

### Section 4 – First Aid

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:** Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

**Ingestion:** If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:** Treat symptomatically and supportively.

## Section 5 – Fire Fighting Measures

**Flash Point:** Not applicable                      **Autoignition Temperature** 452°C ( 845.60°F)  
**Explosion Limits Upper** No data available                      **Lower** No data available  
**Extinguishing Media:** Use any means suitable for extinguishing surrounding fire.  
**Unsuitable Extinguishing Media:** No information available  
**Fire & Explosion Hazards:** Not considered to be a fire or explosion hazard.  
**Fire Fighting Instructions / Equipment:** Use normal procedures. Use protective clothing. Use NIOSH-approved breathing equipment.  
**Hazardous Combustion Products:** No information Available  
**Sensitivity to mechanical impact** No information available.  
**Sensitivity to static discharge** No information available.  
**Specific Hazards Arising from the Chemical:** No information available  
**NFPA Rating:** (estimated) Health: 1; Flammable: 1; Reactivity: 0

## Section 6 – Accidental Release Measures

**Personal Precautions** Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.  
**Environmental Precautions** Not available.  
**Methods for Containment and Clean Up** Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation.

## Section 7 – Handling and Storage

**Handling:** Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.  
**Storage:** Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Keep from contact with oxidizing materials.

## Section 8 – Exposure Controls, Personal Protection

Carbon, CAS# 7440-44-0, ACGIH TLV: None listed OSHA PEL: None listed

**Engineering Measures/ General Hygiene:** Normal ventilation is adequate. Ensure eyewash and safety showers are available.  
**Personal Protection Equipment: Skin Protection:** Chemical resistant gloves.  
**Eye/Face Protection:** Safety Glasses or goggles.    **Respiratory Protection:** Normal ventilation is adequate

## Section 9 – Physical and Chemical Properties

<b>Appearance/Physical State:</b> Black solid	<b>% Volatility:</b> No Information Available
<b>Odor:</b> Odorless	<b>Specific Gravity:</b> 1.8-2.1
<b>Boiling Point:</b> Decomposes	<b>Vapor Pressure:</b> 1 mm Hg @ 3586C
<b>Melting Point:</b> 3652-3697°C / 6606-6687°F	<b>Flash Point:</b> Not Applicable
<b>Vapor Density:</b> No information available	<b>Coefficient of water/oil distribution:</b> Not Available
<b>Evaporation Rate:</b> Not available	<b>Odor Threshold:</b> Not Available
<b>pH:</b> 6.0 – 9.0	<b>Decomposition Temperature:</b> 450°C / 842°F
<b>Flammability:</b> No Information Available	<b>Partition Coefficient n-octanol/water:</b> No data
<b>Solubility:</b> Insoluble available	
<b>Relative Density:</b> No Information Available	<b>Molecular Weight:</b> 12.01

## Section 10 – Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.  
**Incompatible Materials:** May react vigorously or violently when mixed with strong oxidizing agents such as chlorates, bromates and nitrates, especially when heated. Incompatible with chlorinated paraffins,

Lead oxide, manganese oxide, iron oxide, liquid oxygen, oils, and moisture.

**Conditions to Avoid:** Ignition sources, dust generation, moisture, excess heat.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide.

**Hazardous Polymerization:** Has not been reported.

**Hazardous Reactions:** No information available.

### **Section 11 – Toxicological Information**

**Routes of Exposure/Symptoms/Corrosiveness** – See Section 2

LD50 orl-rat: Not available LC50 inhalation-rat: Not Available

**Irritation:** No Information Available

**Toxicologically Synergistic:** No Information Available

**Chronic Exposure**

**Carcinogenicity** Not listed by ACHIH, IARC, NTP, or CA Prop 65.

**Sensitization** No information available.

**Mutagenic Effects** No information available.

**Reproductive Effects** No information available.

**Developmental Effects (Immediate/Delayed)** No information available.

**Teratogenicity** No information available.

**Other Adverse Effects** No Information Available.

**Endocrine Disruptor Information** No information available

### **Section 12 – Ecological Information**

**Ecotoxicity:** Not Available.

**Persistence and Degradability:** No Information Available **Mobility:** No Information Available

**Bioaccumulation/ Accumulation:** Particulates settle out of atmosphere and water.

### **Section 13 – Disposal Considerations**

**Waste Disposal/Waste Disposal of Packaging:** Dilute with water and flush to sewer.

All chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. Comply with all local, state, and federal regulations.

### **Section 14 – Transport Information**

**DOT – NOT REGULATED**

### **Section 15 – Regulatory Information (not meant to be all inclusive)**

**OSHA Status:** These chemicals are not considered hazardous by OSHA.

**Canada DSL:** This chemical is listed on the Canada DSL list.

**TSCA:** This chemical is listed on the TSCA Inventory

**SARA Title III Section 313:** No chemicals are reportable under Section 313.

**RCRA Status:** Not Applicable

**CERCLA Reportable Quantity:** None of the chemicals in this material have an RQ.

**WHMIS:** B6, D2B

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR

### **Section 16 – Additional Information**

**Disclaimer:** The information on this MSDS applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to determine the suitability and completeness of this information for his own particular use. No warranty is implied regarding the accuracy of the data or the results to be obtained from the products use.