



Product Information (203) 740-3471 / Emergency Assistance CHEMTREC 1-800-424-9300

# MATERIAL SAFETY DATA SHEETS

## SECTION I

### PRODUCT AND COMPANY IDENTIFICATION

**Product: Charcoal, Activated, Powder**

**This MSDS is valid for all grades and catalog #'s**

Synonyms: Activated carbon; Charcoal, activated, powder; carbon black; Carboraffin; Carborafine.

Formula: C

Manufacturer: PHARMCO-AAPER  
58 Vale Road  
Brookfield, Connecticut 06804, USA  
Phone (203) 740-3471  
Fax (203) 740-3481

1101 Isaac Shelby Drive  
Shelbyville, KY 40065  
Phone (502) 633-0650  
Fax (502) 633-0685

Emergency Contact:  
CHEMTREC 1-800-424-9300

## SECTION II

### COMPOSITION /INFORMATION ON INGREDIENTS

% by Material CAS # TLV/PEL LC50/LD50  
weight

% by weight	Material	CAS #	TLV/PEL	LC50/LD50
100	Charcoal, Activated	7440-44-0	TWA: 3.5 (mg/m3) from ACGIH (TLV) [United States]	Not available

## SECTION III

### HAZARDS IDENTIFICATION

**Potential Acute Health Effects:** Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

**Potential Chronic Health Effects:**

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

The substance is toxic to mucous membranes. The substance may be toxic to lungs. Repeated or prolonged exposure to the substance can produce target organs damage.

## SECTION IV

### FIRST AID

Obtain medical attention for all cases of over-exposure.

**Eye Contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

**Skin Contact:** Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

**Hazardous Skin Contact:** Not available.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Hazardous Inhalation:** Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. Seek medical attention.

**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

**Hazardous Ingestion:** Not available.

## SECTION V

### FIRE FIGHTING MEASURES

#### Fire:

Flammability of the Product: Flammable.

Auto-Ignition temperature: 452°C (845.6°F)

Flash point: Not available.

Flammable limits: Not available.

Products of Combustion: Not available.

**Fire Hazards:** Highly flammable in presence of open flames and sparks, of heat. Non-flammable in presence of shocks.

**Explosion Hazards:** Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

**Fire Extinguishing Media:** Flammable solid. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.

**Special Information:** Flammable/combustible material. May be ignited by friction, heat, sparks, or flames. May reignite after fire is extinguished. Freshly prepared material may heat spontaneously in air, and presence of water

accelerates this. Material in powder form, capable of creating a dust explosion (forming explosive mixtures in air) when exposed to heat, flame, or ammonium nitrate + heat. ammonium tetrachloride at 240 C, bromates, Ca(OCl)<sub>2</sub>, chlorates, Cl<sub>2</sub>, (Cl<sub>2</sub> + Cr(OCl)<sub>2</sub>), ClO, F<sub>2</sub>, iodates, IO<sub>5</sub>, (Pb(NO<sub>3</sub>)<sub>2</sub>, HgNO<sub>3</sub>, HNO<sub>3</sub>, (oils + air), (potassium + air), Na<sub>2</sub>S, Zn(NO<sub>3</sub>)<sub>2</sub>.

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#### SECTION VI

##### SPILL/ACCIDENTAL RELEASE MEASURES

**Small Spill:** Use appropriate tools to put the spilled solid in a convenient waste disposal container.

**Large Spill:** Spontaneously combustible solid. Stop leak if without risk. Absorb with an inert material and put the spilled material in an appropriate waste disposal. Obtain advice on use of water as spilled material may react with it. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Cover with wet earth, sand or other non-combustible material. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

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#### SECTION VII

##### HANDLING AND STORAGE

**Precautions:** Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe dust. Keep away from incompatibles such as oxidizing agents, metals, acids.

**Storage:** Store in a segregated and approved area. Keep in a cool and ventilated area away from combustible materials. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

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#### SECTION VIII

##### EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protection:** Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

**Personal Protection in Case of a Large Spill:** Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits:** TWA: 5 (mg/m<sup>3</sup>) from OSHA (PEL) [United States] Inhalation Respirable. TWA: 3.5 (mg/m<sup>3</sup>) from ACGIH (TLV) [United States] Inhalation Respirable. TWA: 4 (mg/m<sup>3</sup>) [United Kingdom (UK)] Inhalation Respirable. TWA: 10 (mg/m<sup>3</sup>) [United Kingdom (UK)] Inhalation Total. TWA: 2 (mg/m<sup>3</sup>) [Canada] Inhalation Respirable. TWA: 15 (mg/m<sup>3</sup>) from OSHA (PEL) [United

States] Inhalation Total. Consult local authorities for acceptable exposure limits.

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#### SECTION IX

##### PHYSICAL AND CHEMICAL PROPERTIES

**Physical State/Appearance:** Solid. (Solid powder.)

**Molecular Weight:** 12.01 g/mole

**Odor:** Odorless.

**Taste:** Not available.

**Color:** Black

**pH (1% Solution in Water):** Not applicable.

**Boiling Point:** Not available.

**Melting Point:** 3500°C (6332°F)

**Critical Temperature:** 6810°C (12290°F)

**Specific Gravity:** 3.51 (Water = 1)

**Vapor Pressure (mm Hg):** Not applicable

**Vapor Density (Air=1):** Not available.

**Volatility:** Not available.

**Odor Threshold:** Not available.

**Evaporation Rate:** Not available.

**Viscosity:** Not available.

**Water/Oil Dist. Coefficient:** Not available.

**Ionicity (in water):** Not available.

**Dispersion Properties:** Not available.

**Solubility:** Insoluble in cold water, hot water.

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#### SECTION X

##### STABILITY/REACTIVITY INFORMATION

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Conditions of Instability:** Heat, ignition sources (flames, sparks), air, incompatible materials

**Incompatibilities:** Reactive with oxidizing agents, metals, acids.

**Corrosivity:** Non-corrosive in presence of glass.

**Special Information:** Incompatible with air, unsaturated oils, 2-Nitrobenzaldehyde, strong oxidizers such as fluorine, chlorine trifluoride, and potassium peroxide.

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#### SECTION XI

##### TOXICOLOGICAL INFORMATION

**Routes of Entry:** Inhalation. Ingestion.

**Toxicity to Animals:** LD50: Not available. LC50: Not available.

**Chronic Effects on Humans:** Causes damage to the following organs: mucous membranes. May cause damage to the following organs: lungs.

**Other Toxic Effects on Humans:** Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

**Special Information on Toxicity to Animals:** Not available.

**Special Information on Chronic Effects/Toxicity on Humans:** May cause adverse reproductive effects based on animal test data. Acute Potential Health Effects: Skin: May cause skin irritation. Eyes: May cause eye irritation. Inhalation: May cause respiratory tract irritation. Ingestion: May cause aspiration pneumonitis, vomiting, decreased gastrointestinal transit time, gastrointestinal obstruction, constipation, a charcoal-containing empyema, intestinal

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WARNER GRAM CO

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IN 9

 <p>DEPARTMENT OF THE TREASURY BUREAU OF ALCOHOL, TOBACCO AND FIREARMS</p> <p><b>INDUSTRIAL ALCOHOL USER PERMIT</b></p>	<p>PERMIT NUMBER</p> <p><b>TF-HD-0062</b></p>
	<p>EFFECTIVE DATE</p> <p><b>December 1, 1959</b></p>
<p>Union Hospital of Cecil County 106 Singerly Avenue Elkton, MD 21921</p>	<p>MAXIMUM QUANTITY TO BE WITHDRAWN PER CALENDAR YEAR</p> <p><u>720</u></p> <p><input type="checkbox"/> GALLONS <input checked="" type="checkbox"/> FIFTHS</p>
<p>You are hereby authorized to:</p> <p><input checked="" type="checkbox"/> Withdraw and use alcohol free of tax</p> <p><input type="checkbox"/> Withdraw and deal in specially denatured alcohol/rum</p> <p><input type="checkbox"/> Recover/restore alcohol free of tax</p> <p><input type="checkbox"/> Withdraw and use specially denatured alcohol/rum</p> <p><i>James S. Brown</i> <i>Director of National Liquor</i></p> <p><b>TRUE COPY</b></p> <p>Operations must be conducted at the above address, subject to applicable law and regulations, and to the conditions set forth on the back of this permit.</p> <p>This permit is continuing, and will remain in force until suspended, revoked, voluntarily surrendered, or automatically terminated.</p> <p>This permit is not transferable. In the event of any lease, sale or other transfer of the operations authorized, or of any other changes in the proprietorship of such operations, this permit shall automatically terminate unless the successor qualifies.</p> <p>Tax free alcohol may not be used for any purpose or in any manner not shown on an approved permit application.</p>	
<p>THIS IS AN <input type="checkbox"/> ORIGINAL PERMIT <input checked="" type="checkbox"/> AMENDED PERMIT</p>	
<p>REASON FOR AMENDMENT (if applicable)</p> <p>Revised Regulations</p>	<p>DATE OF AMENDMENT</p> <p>June 4, 1985</p>
<p>APPROVED REGIONAL DIRECTOR (COMPLIANCE), BUREAU OF ALCOHOL, TOBACCO AND FIREARMS</p> <p>By Chief, Technical Services Section - Fred Iaconangelo</p>	

ATF 8150-B (REV) REPLACES ATF FORMS 1472 (1-28-58), 1472 (1-28-64), AND 1472 (1-28-67) WHICH ARE OBSOLETE

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*Marcus Howard*

*Union Hosp*

Dept: \_\_\_\_\_

Fax # 392-4764

POLYCHEN CORPORATION  
PHARMCO PRODUCTS INC.

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perforation, charcoal deposits in the esophageal and gastric mucosa, rectal ulcer. Chronic Potential Health Effects: Skin: Chronic skin exposure can result in clogging of hair follicles, rendering them black. Inhalation: Chronic inhalation can cause carbon particles to accumulate in the lungs. It may cause a pneumoconiosis called "Black Lung Disease" or "Coal Workers Pneumoconiosis". This is seen in coal workers, but no evidence has been found for the equivalent with occupational exposure to activated carbon (charcoal).

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#### SECTION XII ECOLOGICAL INFORMATION

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:** Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The product itself and its products of degradation are not toxic.

**Special Information on Products of Biodegradation:** Not available.

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#### SECTION XIII DISPOSAL CONSIDERATIONS

**Waste Disposal:** Recycle to process, if possible. Consult your local or regional authorities.

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#### SECTION XIV TRANSPORTATION INFORMATION

**DOT Classification:** DOT CLASS 4.2: Spontaneously combustible substance.

**UN: UNNA: 1362 : Carbon, activated PG: III**

**Special Provisions for Transport:** Not available.

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#### SECTION XV REGULATORY INFORMATION

**Federal and State Regulations:** Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311 and 312). Components present in this product at a level which could require reporting under the statute are: **NONE**

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual report release of toxic chemicals that appear in 40 CFR 372 (used for SARA 313). This information must be included in all MSDSs that are copied and distributed for this material.

Components present in this product at a level which could require reporting under the statute are: **NONE**

Pennsylvania Right-To-Know, Hazardous substance List, Hazardous Substances and Special hazardous Substances on the list must be identified when present in products.

Components present in this product at a level which could require reporting under the statute are: **NONE**

Massachusetts Right-To-Know, Substance List (MSL)

Hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in

products. Components present in this product at a level which could require reporting under the statute are: **NONE**

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of Hazardous Substances equal or greater than the reportable quantities (RQs) in 40 CFR 302.4. Components present in this product at a level which could require reporting under the statute are: **NONE**

#### **Other Classifications:**

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC): This product is not classified according to the EU regulations.

**Protective Equipment:** Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety glasses.

**References:** Not available.

**Other Special Considerations:** Not available.

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The information contained herein is based on data considered to be accurate based on the material as packaged. However, no warranty is expressed regarding the accuracy of these data or the results to be obtained from the use thereof. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It is the user's obligation to determine the conditions of safe use of the product. While this MSDS is based on technical data judged to be reliable, PHARMCO-AAPER assumes not responsibility for the completeness or accuracy of the information contained herein.