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**Product:** PRIMAL Charcoal Powder BPC 1934

## **1.0 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY / UNDERTAKING**

### 1.1 Product Identifier:

Product Name: Activated Charcoal Powder BPC 1934  
REACH Registered name: Activated carbon HDS  
REACH Registered No.: 01-2119488894-16-0007/8  
CAS No.: 7440-44-0  
EINECS No.: 931-328-0

### 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Use of Substance / Mixture: Adsorbent

## **2.0 COMPOSITION / INFORMATION ON INGREDIENTS**

Description: Activated charcoal  
CAS No: 7440-44-0

## **3.0 HAZARDS IDENTIFICATION**

### Emergency Overview:

Odourless black powder, activated charcoal (especially when wet) can deplete oxygen from air in enclosed spaces and dangerously low levels of oxygen may result. When workers enter a vessel containing activated charcoal, follow procedures for enclosed spaces and in particular low oxygen levels. Works should also take appropriate precautions when dealing with spent (used) activated charcoal which may exhibit properties of the absorbed material.

### Potential Health Effects:

Medical conditions aggravated by exposure: none documented

### Routes of exposure:

Eyes: Not corrosive but may cause mild irritation  
Skin: Not corrosive and not a primary irritant, mild irritation possible due to abrasive action of dust  
Ingestion: No known deleterious effects  
Inhalation: Possible mild irritation, due to drying and abrasive action of dust  
Chronic Effects: IARC, not listed      NTP, not listed      OSHA, not regulated

#### 4.0 FIRST AID MEASURES

Inhalation:	Remove to fresh air, seek medical advice if cough or respiratory symptoms develop
Skin contact:	Wash with soap/water, seek medical advice if skin irritation occurs
Eye contact:	Flush with plenty of clean water, seek medical advice if irritation occurs
Ingestion:	Give one or two glasses of water to drink, seek medical advice if gastrointestinal symptoms develop.

#### 5.0 FIRE FIGHTING MEASURES

Prevention:	Keep away from sources of heat
Suitable extinguishing media:	Flood with water
Special exposure hazards:	Carbon monoxide / dioxide may be generated in the event of a fire
Flash point:	Not applicable
Non Flammable:	16CFR1500.44
Not Self Heating:	UN manual of Tests and Criteria, Test N.3
Flammability limits in Air:	LFL and UFL not applicable

#### 6.0 ACCIDENTAL RELEASE MEASURES:

Personal precautions:	Not applicable
Environmental:	Not applicable

Methods for cleaning up: Sweep carefully place into suitable container for disposal in accordance with local and national regulations.

#### 7.0 HANDLING AND STORAGE

Handling:	No associated hazards identified
Storage:	Store under ambient temperature conditions, avoid extremes of temperature. Store away from any strong oxidisers.

#### 8.0 EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection:	Keep dust to a minimum, using engineering controls or suitable respiratory protection
Skin Protection:	Wear gloves if possible.
Eye Protection:	Wear safety glasses or dust tight goggles
Hygiene measures:	Wash hands before and after handling product.
Exposure limits:	OSHA and ACGIH not established any specific limits.

## 9.0 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Fine powder
Colour:	Black
Odour:	None
pH:	Not applicable
Boiling point:	Not applicable
Melting point:	Not applicable
Flash point:	Not applicable
Flammability (solid/gas):	Not applicable
Auto flammability:	Not applicable
Upper explosion limit:	Not applicable
Lower explosion limit:	Not applicable
Vapour pressure:	Not applicable
Solubility:	Not soluble in water or common organic solvents
Partition coefficient:	Not applicable

## 10.0 STABILITY AND REACTIVITY

Conditions to avoid:	Sources of ignition
Materials to avoid:	Strong oxiders
Hazardous decomposition products:	Combustion may result in generation of carbon dioxide/monoxide and oxides of nitrogen
Hazardous polymerisation:	Will not occur

## 11.0 TOXICOLOGICAL INFORMATION

Effects and hazards of eye contact:	May produce eye irritation
Effect and hazards of skin contact:	Product not a primary skin irritant
Effect and hazards of inhalation:	Product non toxic through inhalation
Effect and hazards of ingestion:	Product non toxic through ingestion, acute oral LD50 (rat) for active ingredient >1000mg/kg.

## 12.0 ECOLOGICAL INFORMATION

BOD /COD:	No information available
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## 13.0 DISPOSAL CONSIDERATIONS

Dispose of in accordance with local and national regulations

## 14.0 TRANSPORT INFORMATION

Steam activated carbon has been tested according to UN Transport of Dangerous Goods test protocols for spontaneously combustible materials. It has been specially determined they are non hazardous for transportation with UN1362, class 4.2.

#### 15.0 REGULATORY INFORMATION

Product not classified as dangerous or hazardous.

##### Labelling Information

Product Name:	Medicinal Charcoal Powder BPC 1934
Classification:	Pharmaceutical
Legal Status	PL 00726/5003R
S Phrases	Not applicable

#### 16.0 OTHER INFORMATION

This safety data sheet has been produced to comply with the preparation directive 1999/45/EC

Whilst every effort has been made to represent the product as accurately as possible, **PRIMAL provides no warranty with respect to this information and PRIMAL disclaims all liability associated with its use.**

Product: Activated Charcoal: British Pharmaceutical Codex 1934 (BPC 1934)

Attribute	Units	Result	Specification
Description	Pass / Fail	Pass	Fine black powder
Odour	Pass / Fail	Pass	None discernible
Ash content	Pass / Fail	Pass	Less than 8%
Moisture content	Pass / Fail	Pass	Less than 15%
Carbon content	%	98%	>95
Solubility	Pass / Fail	Pass	Pass
Ignition	Pass / Fail	Pass	Pass
Organics	Pass / Fail	Pass	Conforms to limit testing
Heavy metals	Pass / Fail	Pass	Conforms to limit testing
Zinc	Pass / Fail	Pass	Conforms to limit testing
PAH content	µg/Kg	10	<50

#### Non Compendial Testing Specifications

Particle size: nominal 100 µ

Product meets the product specification for activated charcoal BPC 1934.

Product meets the requirements for EU food additive E153 (Vegetable Carbon)