



Specification

Product Name: Activated Charcoal

Product Code: SPEC0001

Description:

Our Charcoal Powder is a premium quality ultrafine powder made from coconut husks. Charcoal powder is a versatile product and has a variety of uses. It can be added to a variety of foods such as breads, cakes, biscuits, icings, ice cream, drinks, cocktails, fluid gels and many more. Our Charcoal Powder has no flavour, odour or aftertaste. The coconut husks are burned at an extremely high temperature and then refined. Used by chefs to create the dramatic and unusual, it can be used to produce a stunning visual effect.

Water-wetted, activated carbon powder produced from specially selected coconut shell char feedstock by high temperature steam activation.

Specifications:

Technical details			
Particle Size (ASTM D2862)	99% min 95% min 90% min	-100 ASTM -200 ASTM -325 ASTM	-0.15mm -0.075mm 0.045mm
Carbon Tetrachloride Adsorption (ASTM D2467)	60% min		
Iodine Number (AWWA B604)	1050 mg/g min (1150 mg/g min before wetting)		
Moisture Content (ASTM D2867)	35-45% max (as packed)		

Ingredients:

Charcoal Powder (E153) made from Coconut Husk, contains no additives.

Dietary Information:

Suitable for Vegans & Vegetarians, Non-GMO, Gluten Free.

Storage:

Please store in dry, cool conditions and not in direct sunlight. Use within 6 months of opening.

www.specialingredients.co.uk

**Packaging:**

Size	EAN
100g	5060341119842
250g	5060341119859
500g	5060341119866
5kg	5056191008689
10kg	5056191008696

Shelf Life:

36 months from production date.

Allergen Declaration

Allergen	Contains (Y/N)
Cereals containing Gluten	N
Crustaceans	N
Eggs	N
Fish	N
Peanuts	N
Soybeans	N
Milk	N
Nuts	N
Celery	N
Mustard	N
Sesame Seeds	N
Sulphur Dioxide and Sulphites (at concentration of more than 10mg/kg or 10mg/L in terms of Sulphur Dioxide)	N
Lupin	N
Molluscs	N



Material Safety Data Sheet

1: Substance/Preparation and Company Identification:

Product Name: ACTIVATED CHARCOAL POWDER,

CAS: 7440-44-0

Supplier: Special Ingredients Ltd, 4 Foxwood View, Chesterfield, S41 9RN. Tel: 0044 (0)1246 906247.
Email address: <https://specialingredients.co.uk/pages/contact>, Emergency Telephone Contact: 07701 095864.

2: Hazard Identification:

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Not a hazardous substance according to regulation (EC) No. 1272/2008

2.2 LABEL ELEMENTS

Labelling in accordance to Regulation (EC) No. 1272/2008

2.3 OTHER HAZARDS

Moist material will selectively adsorb oxygen from air. Enclosed tanks and spaces should only be entered with continuous oxygen monitoring and use of appropriate forced ventilation or a self-contained breathing appliance should be worn. The material is a potential nuisance dust and should be carefully handled to minimise dust generation. Adequate exhaust

3: Composition / Information and Ingredients:

Component	Classification	Percentage (weight)
Activated carbon, HDS CAS: 7440-44-0 REACH: 01/2119488894-160010	Non hazardous	≤100%
Moisture CAS: N/A REACH: N/A	Non hazardous	<15%

4: First Aid Measures:

www.specialingredients.co.uk



4.1 DESCRIPTION OF FIRST AID MEASURES

EYES: Treat immediately by flushing with copious amounts of water or eye bath solution. If redness, itching, or a burning sensation develops consult a physician.

SKIN: Wash the affected area with soap and water

INGESTION: Give water to drink, never administer to an unconscious person. If gastro intestinal symptoms develop consult a physician.

INHALATION: Move person into fresh air. If a cough or respiratory symptoms develop consult a physician.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

See sections 2 or 11.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No Data available.

5: Firefighting Measures:

5.1 EXTINGUISHING MEDIA

Water spray preferable, avoid methods that generate or disturbs excessive dust.

5.2 SPECIAL HAZARDS ARISING FROM SUBSTANCE OR MIXTURE

Used material may release additional combustion products. Airborne dust is a weak explosion hazard. Wetted material may cause oxygen depletion in confined spaces.

5.3 ADVICE FOR FIREFIGHTERS

Wear self-contained breathing apparatus.

6: Accidental Release Measures:

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use personal protective equipment. Avoid dust formation. Ensure adequate ventilation. Avoid breathing dust.

6.2 ENVIRONMENTAL PROCEDURES

Do not let product enter water-ways.

6.3 METHODS AND MATERIALS FOR CONTAMINANT AND CLEAN UP

Preferably vacuum up or sweep up and keep in a suitable closed container for disposal.

6.4 REFERENCE TO OTHER SECTIONS

For disposal consideration see section 13, for personal protective equipment recommendations see section 8.

7: Handling And Storage:

7.1 PRECAUTIONS FOR SAFE HANDLING

Avoid contact with skin and eyes. Avoid formation of dust. Provide adequate exhaust ventilation where dust is generated.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store indoors or under cover in frost-free conditions. Avoid direct sunlight. Do not store at high temperatures. Keep away from contaminating vapours and sources of ignition. Ensure packaging remains sealed. Keep away from strong acids and strong oxidisers. 7.3 SPECIFIC END USE(S)

See section 1.2

**8:Exposure Controls/ Personal Protection:****8.1 CONTROL PARAMETERS**

Carbon						
Limit value type (country of origin)	Substance name	Occupational exposure limit value		Recommended monitoring procedures	Peak limitation	Source
		Long term (mg/m3)	Short term			
Germany	Activated	1.5	-	Personal air	-	DFG Deutsche
	carbon alveolar fraction			sampling for alveolar fraction		Forschungsgemeinschaft: MAK-und BAT-Werte-Liste 2010
	Activated carbon respirable fraction	4	-	Personal air sampling for respirable fraction	-	Senatskommission zur Prufung gesundheitsschadlicher Arbeitsstoffe Mitteilung 46; VCH
Biological limit values: No biological limit value has been sent Additional exposure limits under the conditions of use: None.						
DNEL/DMEL		Exposure route	Exposure frequency	Critical component	Remarks	
Worker	Consumer					
3mg/m3	0.5mg/m3	Inhalation	Short term (acute) Long term (repeated)	Activated carbon	The interim inhalation DNEL long-term exposure for local effects was based on OEL (TWA, 8hr) set by the American Conference of Governmental Industrial Hygienists (ACGIH, 2001) for inhalable dust of carbon black. The OEL is intended to minimise excessive dirtiness and effects on lung function.	
No PNEC is derived as the substance is highly insoluble and no ecotoxicity information is available.						

8.2 EXPOSURE CONTROLS**OCCUPATIONAL EXPOSURE CONTROLS**

A good basic standard of occupational hygiene is to be implemented for all handling of activated carbon outside a container. Wash hands and face before breaks and immediately after handling the product.



SAFETY CONTROLS

Low oxygen work procedures should be in place – wet activated carbon depletes oxygen from air and, therefore, dangerously low levels of oxygen may be encountered. Whenever workers enter a vessel containing activated carbon, the vessels oxygen content should be determined and work procedures for potentially low levels of oxygen should be followed. Alternatively the room may be fitted with oxygen level sensors having an alarm setting at 18 vol. %

PERSONAL PROTECTIVE EQUIPMENT

Eye/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Full contact Material: Nitrile rubber Minimum layer thickness: 0.11mm Breakthrough time: 480 min Body protection Standard protective work clothes Respiratory protection Where risk assessment shows masks are required due to volumes handled or poor ventilation use type N100(US) or type P3(EN 143) dust masks.

ENVIRONMENTAL EXPOSURE CONTROLS

Product related measures to prevent exposure Local exhaust ventilation to remove material at source Contained storage Regulated waste disposal Do not let product enter drains

INSTRUCTIONAL MEASURES TO PREVENT EXPOSURE

Inclusion of ISO 14001 Appropriate documentation such as work instruction procedures

9: Physical and Chemical Properties:

9.1 Information on Basic Physical Properties

Appearance	Form: Solid Colour: Black
Odour	No Odour
Odour threshold	N/A
Melting point / freezing point	>1000°C
Initial boiling point and boiling range	>1000°C
Flash point	N/A
Evaporation rate	N/A
Flammability (solid, gas)	No data available



Upper/lower flammability or explosive limits	N/A
Vapour pressure	N/A
Vapour density	N/A
Relative density (dry)	300-640kg/m3
Water solubility	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temper	No data available
Decomposition temperature	No data available
Viscosity	N/A
Explosive properties	No data available
Oxidising properties	N/A

9.2 OTHER SAFETY INFORMATION

The physical and chemical properties of the spent material may be different to that of the virgin carbon.

10: Stability and Reactivity:

10.1 REACTIVITY

This product shows no reactivity under the specified conditions of storage, shipment, and use.

10.2 CHEMICAL STABILITY

This product is stable under the specified conditions of storage, shipment, and use.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Contact with strong oxidisers, i.e. chlorine, liquid oxygen, ozone, may result in rapid combustion / possible explosion.

10.4 CONDITIONS TO AVOID

Keep operating temperatures below 200°C. Do not store in direct sunlight.

10.5 INCOMPATIBLE MATERIALS

Keep away from strong acids and strong oxidisers.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide and carbon dioxide.

SECTION 10 NOTES:

11: Toxicological Information:

11.1 INFORMATION ON TOXICOLOGICAL INFORMATION

ACUTE TOXICITY



Activated Carbon			
	Effect dose	Species	Comments
Acute toxicity, oral	LD50>2000mg/kg bw	Rat, female	Reliable without constriction
Acute toxicity, inhaled	LCO (1h): 64.4mg/l air (nominal) or 8.5mg/l air (analytical) (no deaths, but multiple effects were observed (contamination of fur, general stress, ling rales, weight loss, lung discolouration))	Rat	Reliable with restrictions

SKIN CORROSION / IRRITATION

Activated carbon, High density skeleton – No data available

SERIOUS EYE DAMAGE / IRRITATION

Activated carbon, High density skeleton – No data available

RESPIRATORY OR SKIN SENSITIZATION

Activated carbon, High density skeleton – No data available

GERM CELL MUTAGENICITY

Activated carbon, High density skeleton – No data available

CARCINOGENICITY

Activated carbon, High density skeleton – No data available

REPRODUCTIVE TOXICITY

Activated carbon, High density skeleton – No data available

SPECIFIC TARGET ORGAN TOXICITY

Activated carbon, High density skeleton – No data available

12:Ecological Considerations:**12.1 TOXICITY**

No information is available. As activated carbon is highly insoluble in water no toxicity is expected.

12.2 PERSISTANC AND DEGRADABILITY

No data available.

12.3 BIOACCUMULATIVE POTENTIAL No

data available.

12.4 MOBILITY IN SOIL No

data available.

12.5 RESULTS OF PBT AND VPVB ASSESSMENT

This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very

bioaccumulative (vPvB) at levels of 0.1% or higher

12.6 OTHER ADVERSE EFFECTS No data available.**13: Disposal Considerations:****13.1 WASTE TREATMENT METHOD**

Offer surplus and non-recyclable produce to a licensed disposal company. Dispose of contaminated packaging in accordance with regulations.

**14: Transport Information:****14.1 UN NUMBER**

NONE

14.2 UN PROPER SHIPPING NAME

ADR/RID: Not regulated

AND: Not regulated

IMDG/IMO: Not regulated

ICOA/IATA: Not regulated

14.3 TRANSPORT HAZARD CLASSES

None

14.4 PACKING GROUP

None

14.5 ENVIRONMENTAL HAZARDS

Not Classified

14.6 SPECIAL PRECAUTIONS FOR USER See section 2.**14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE** Not applicable.**14.8 ADDITIONAL INFORMATION**

Wet activated carbon selectively absorbs oxygen from the air. When entering a confined space with wet activated carbon always use oxygen monitoring equipment.

15: Regulatory Information:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

No data available.

15.2 CHEMICAL SAFETY ASSESSMENT

For this product a safety assessment was not carried out.

16: Other Information:

FULL LIST OF H STATEMENTS None.

The information contained in this data sheet is, to the best of our knowledge, true and accurate, but any recommendations or suggestions which may be made are without guarantee, since the conditions of use are beyond our control. We do not accept any liability whatsoever, however arising, which results directly or indirectly from the use of the product.