SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name	Activated Carbon, High Density Skeleton.
Trade Name	Filtracarb®
Chemical Name	Carbon.
Chemical Formula	C
CAS No.	7440-44-0
EC No.	931-328-0
REACH Registration No.	UK-01-9867897380-5-0001

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)	Used as an adsorbent in industrial, professional and consumer setting.
Uses Advised Against	Not known.

1.3 Details of the supplier of the safety data sheet

Company Identification	CPL Activated Carbons 16 Beecham Court Smithy Brook Rd, Wigan WN3 6PR United Kingdom
Telephone	+44(0) 1942 824240
E-Mail (competent person)	sales@activated-carbon.com

1.4 Emergency telephone number

Company	+44(0) 1942 824240

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP)	Not classified as dangerous for supply/use.

2.2 Label elements

According to Regulation (EC) No. 1272/2008 (CLP)

Product Name	Filtracarb®
Hazard Pictogram(s)	None.
Signal Word(s)	None.
Hazard Statement(s)	None.
Precautionary Statement(s)	None.

2.3 Other hazards

Contact with strong oxidisers may result in fire.
The PBT and vPvB criteria of REACH Annex XIII do not apply. Wet activated carbon depletes oxygen form air and, therefore, dangerously low levels of oxygen may be encountered.
The oxygen content of air in vessels containing activated carbon should be determined before entry and work procedures for potentially low oxygen areas should be followed. Spent (used) activated carbons may exhibit properties pertaining to the adsorbate.

2.4 Additional Information

None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

A porous, amorphous, high surface area adsorbent composed of largely elemental carbon with a high density skeleton.

3.1 Substances

Ingredients	CAS No.	EC No. / REACH Registration No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Activated Carbon High Density Skeleton	7440-44-0	231-153-3 / UK-01-9867897380-5-0001	80 - 100	Not classified.	None

Contains no non-classified vPvB substances.

Contains a non-classified substance with a Union workplace exposure limit. Activated Carbon (7440-44-0)

For full text of H/P Statements see section 16.

3.2 Mixtures

Not applicable.

SECTION 4: FIRST AID MEASURES

Non-powdered activated carbon has a low dustiness and no special measures are required. The measures below are based on contact with powdered activated carbons.

4.1 Description of first aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. If symptoms develop, obtain medical attention.
Skin Contact	Remove contaminated clothing. Wash affected skin with soap and water. If skin irritation occurs, get medical advice/attention.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
Ingestion	Rinse mouth. Give at least 0.5L of water to drink. Get medical advice/attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Contact with Eyes, Skin, Mucous membranes: Irritation.

Ingestion of large amounts may cause congestion.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing media	Carbon dioxide, Foam, water spray or fog.
Unsuitable extinguishing media	None.

5.2 Special hazards arising from the substance or mixture

Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide. Used activated carbons may release other combustion products. Wetted activated carbon may cause oxygen depletion in enclosed spaces. Avoid dust generation.

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Wear protective gloves. Wash hands thoroughly after handling.

6.2 Environmental precautions

Prevent entry into drains.

6.3 Methods and material for containment and cleaning up

Use vacuum equipment for collecting spilt materials, where practicable. Wash the spillage area with water.

6.4 Reference to other sections

See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Wet activated carbon depletes oxygen form air and, therefore, dangerously low levels of oxygen may be encountered. The oxygen content of air in vessels containing activated carbon should be determined before entry and work procedures for potentially low oxygen areas should be followed. Ensure adequate ventilation. Avoid dust generation. Wear protective gloves.

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place. Keep away from heat and direct sunlight.

Storage temperature	Ambient.
Storage life	Stable under normal conditions.
Incompatible materials	Strong oxidising agents, Acids.

7.3 Specific end use(s)

Used as an adsorbent in industrial, professional and consumer setting.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Activated Carbon	7440-44-0		10			Graphite particulate inhalable dust
	7440-44-0		4			Graphite particulate respirable dust

Source: UK Workplace Exposure Limits EH40/2005 (Fourth edition, published 2020)

8.1.2 **Biological limit value** Not established.

8.1.3 **PNECs and DNELs**

DNEL	Oral	Inhalation	Dermal
Industry - Long Term	-	3 mg/m³	-
Industry - Short term	-	3 mg/m³	-
Consumer - Long Term	-	0.5 mg/m³	-
Consumer - Short term	-	0.5 mg/m³	-

No PNEC is derived as the substance is highly insoluble.

8.2 Exposure controls

8.2.1. Appropriate engineering controls: Provide adequate ventilation. Local exhaust recommended.

Wet activated carbon depletes oxygen from air. Therefore, low oxygen work procedures should be in place for vessels containing activated carbons.

8.2.2. Personal protection equipment

Eye Protection: Non-powdered activated carbons: Not normally required.

Powered activated carbons: Wear eye protection with side protection (EN166).

Skin protection: Not normally required.

Wear suitable gloves if prolonged skin contact is likely. Breakthrough time of the glove material: refer to the information provided by the gloves' producer.

Respiratory protection: Non-powdered activated carbons: Normally no personal respiratory protection is necessary.

Powered activated carbons: Use a half face mask with a P2 filter or better.

Thermal hazards: Not applicable.

8.2.3. Environmental Exposure Controls: Prevent entry into drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Solid. Non-powdered and powdered porous solids.
Colour	Black.
Odour	Odourless.
Melting point/freezing point	>1000°C
Boiling point or initial boiling point and boiling range	>1000°C
Flammability	Non-flammable.
Lower and upper explosion limit	Not applicable.
Flash Point	Not applicable.
Auto-ignition temperature	430°C
Decomposition Temperature	Not available.
pH	6.8 (1% aqueous solution).
Kinematic Viscosity	Not applicable.
Solubility	Solubility (Water) : Insoluble in water. @ pH 6.8; 20°C Solubility (Other) : Not known.
Partition coefficient n-octanol/water (log value)	Not available.
Vapour pressure	Not applicable.
Density and/or relative density	300 – 700 kg/m³ (Bulk Density)
Relative vapour density	Not applicable.
Particle characteristics	Not available.

9.2 Other information

The physical and chemical properties of used (spent) material may be different to those of virgin activated carbon.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Contact with strong oxidizing agents may result in rapid combustion/possible explosion.

10.4 Conditions to avoid

Operating temperature >200°C. Keep from direct sunlight.

10.5 Incompatible materials

Strong oxidising agents, Acids.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

This material is unlikely to present a significant health hazard under normal conditions of handling and use.

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - Ingestion	Unlikely to be hazardous if swallowed.
	LD50(rat) (female) = >2000 mg/kg bw
Acute toxicity - Skin Contact	Unlikely to cause harmful effects.
Acute toxicity - Inhalation	Unlikely to be hazardous by inhalation unless present as a dust.
	LD50(rat) = >8.5 mg/l
Skin corrosion/irritation	Unlikely to cause skin irritation.
Serious eye damage/irritation	Not classified.
Skin sensitization data	It is not a skin sensitiser.
Respiratory sensitization data	Not classified.
Germ cell mutagenicity	There is no evidence of mutagenic potential.
Carcinogenicity	No evidence of carcinogenicity.
Reproductive toxicity	Not classified.
Lactation	Not classified.
STOT - single exposure	None anticipated.
STOT - repeated exposure	None anticipated.
Aspiration hazard	Not classified.

11.2 Information on other hazards

Not known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Low toxicity to aquatic organisms. No data.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

Insoluble in water. The substance is predicted to have low mobility in soil.

12.5 Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

12.6 Endocrine disrupting properties

Not known.

12.7 Other adverse effects

A water slurry containing large quantities of HDS carbon may display high pH values.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recover or recycle if possible. Dispose of wastes in an approved waste disposal facility.

13.2 Additional Information

Spent activated carbon may require specific disposal considerations.
Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

Not classified as hazardous for transport.

14.1 UN number or ID number

1362

14.2 UN proper shipping name

Carbon, Activated

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not classified as a Marine Pollutant.

14.6 Special precautions for user

Wet activated carbon depletes oxygen from air. Therefore, low oxygen work procedures should be in place for vessels containing activated carbons.

14.7 Maritime transport in bulk according to IMO instruments

Not known

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

European Regulations - Authorisations and/or Restrictions On Use

Candidate List of Substances of Very High Concern for Authorisation	Not listed
REACH: ANNEX XIV list of substances subject to authorisation	Not listed
REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not listed
Community Rolling Action Plan (CoRAP)	Not listed
Regulation (EC) N° 850/2004 of the European Parliament and of the Council on persistent organic pollutants	Not listed
Regulation (EC) N° 1005/2009 on substances that deplete the ozone layer	Not listed
Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals	Not listed

National regulations

Other	Not known.

15.2 Chemical Safety Assessment

A REACH chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16

Revision 7 is a combined SDS for powdered and non-powdered activated carbons (HDS).

LEGEND

Acronyms

ATE : Acute Toxicity Estimate
CAS : Chemical Abstracts Service
CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL : Derived No Effect Level
EC : European Community
EINECS : European Inventory of Existing Commercial Chemical Substances
LTEL : Long term exposure limit
PBT : Persistent, Bioaccumulative and Toxic
PNEC : Predicted No Effect Concentration

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals
STEL : Short term exposure limit
STOT : Specific Target Organ Toxicity
vPvB : very Persistent and very Bioaccumulative

Key literature references and sources for data used to compile the SDS

Regulation (EC) No. 1272/2008 (CLP)
UK Workplace Exposure Limits EH40/2005 (Fourth edition, published 2020)

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