

Filtracarb®FGT+

## SAFETY DATA SHEET

ACCORDING TO EC-REGULATION 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

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

<b>1.1</b>	<b>Product identifier</b>	
	Product Name	Activated Carbon, High Density Skeleton.
	Trade name	Filtracarb® FGT+
	Chemical Name	Carbon.
	Chemical Formula	C.
	CAS No.	7440-44-0
	EINECS No.	931-328-0
	REACH Registration No.	01-2119488894-16-0004
<b>1.2</b>	<b>Relevant identified uses of the substance or mixture and uses advised against</b>	
	Identified use(s)	Used as an adsorbent in industrial, professional and consumer setting.
	Uses advised Against	None known.
<b>1.3</b>	<b>Details of the supplier of the Safety Data Sheet</b>	
	Company Identification	CPL Activated Carbons. 16 Beecham Court Smithy Brook Rd Wigan WN3 6PR
	Telephone	+44(0) 1942 824240
	E-Mail (competent person)	<a href="mailto:sales@activated-carbon.com">sales@activated-carbon.com</a>
<b>1.4</b>	<b>Emergency telephone number</b>	
	Company	+44(0) 1942 824240

### 2. SECTION 2: HAZARDS IDENTIFICATION

<b>2.1</b>	<b>Classification of the substance or mixture</b>	
	Regulation (EC) No. 1272/2008 (CLP)	Not classified as dangerous for supply/use.
<b>2.2</b>	<b>Label elements</b>	
	Trade name	According to Regulation (EC) No. 1272/2008 (CLP) Filtracarb.
	Hazard pictogram(s)	None.
	Signal word(s)	None.
	Hazard statement(s)	None.
	Precautionary statement(s)	None.
<b>2.3</b>	<b>Other hazards</b>	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 from 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.
<b>2.4</b>	<b>Additional Information</b>	None.

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**3. 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**

EC Classification No. 1272/2008

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard pictogram(s) and Hazard statement(s)
Activated Carbon	80 - 100	7440-44-0	931-328-0	01-2119488894-16-0004	None

**3.2 Additional Information**

None.

**4. 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	IF INHALED: Remove person to fresh air and keep comfortable for breathing. If symptoms develop, obtain medical attention.
Skin Contact	IF ON SKIN: Remove contaminated clothing. Wash affected skin with soap and water. If skin irritation occurs, get medical advice/attention.
Eye Contact	IF IN EYES: 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	IF SWALLOWED: 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.

**5. SECTION 5: FIRE-FIGHTING MEASURES**

Non-flammable.

**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 fire-fighters**

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

## 6. SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	Ensure adequate ventilation. Wear protective gloves. Wash hands thoroughly after handling.
<b>6.2 Environmental precautions</b>	Prevent entry into drains.
<b>6.3 Methods and material for containment and cleaning up</b>	Use vacuum equipment for collecting spilt materials, where practicable. Wash the spillage area with water.
<b>6.4 Reference to other sections</b>	See Also Section 8 and 13.

## 7. SECTION 7: HANDLING AND STORAGE

<b>7.1 Precautions for safe handling</b>	Wet activated carbon depletes oxygen from 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.
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	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 and Acids.
<b>7.3 Specific end use(s)</b>	Used as an adsorbent in industrial, professional and consumer setting.

## 8. 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/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note
Activated Carbon	7440-44-0	-	10	-	-	Graphite particulate inhalable dust
		-	4	-	-	Graphite particulate respirable dust

Source: Workplace Exposure Limit (UK HSE EH40)

#### 8.1.2 Biological limit value




Not established.

#### 8.1.3 PNECs and DNELs

DNEL	Oral	Inhalation	Dermal
Industry - Long Term	-	3 mg/m <sup>3</sup>	-
Industry - Short term	-	3 mg/m <sup>3</sup>	-
Consumer - Long Term	-	0.5 mg/m <sup>3</sup>	-
Consumer - Short term	-	0.5 mg/m <sup>3</sup>	-

No PNEC is derived as the substance is highly insoluble

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<b>8.2</b>	<b>Exposure controls</b>	
<b>8.2.1</b>	<b>Appropriate engineering controls</b>	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.
<b>8.2.2</b>	<b>Personal protection equipment</b>	
	Eye/face protection	Non-powdered activated carbons: Not normally required. Powered activated carbons: Wear eye protection with side protection (EN166).
		
	Skin protection (Hand protection/ Other)	Not normally required. Wear suitable gloves if prolonged skin contact is likely.
		
	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.
<b>8.2.3</b>	<b>Environmental exposure controls</b>	Prevent entry into drains.

**9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>9.1</b>	<b>Information on basic physical and chemical properties</b>	
	Form	Solid.
	Appearance	Non-powdered and powdered porous solids.
	Colour	Black.
	Odour	Odourless.
	Odour Threshold (ppm)	Not established.
	pH (Value)	6.8 (1% aqueous solution).
	Melting Point (°C)	>1000°C
	Boiling Point (°C)	>1000°C
	Flash Point (°C)	Not applicable.
	Evaporation rate	Not applicable.
	Flammability (solid, gas)	Non-flammable.
	Explosive limit ranges	Not applicable.
	Vapour Pressure (mm Hg)	Not applicable.
	Vapour Density (Air=1)	Not applicable.
	Density	2.31 g/cm <sup>3</sup>
	Bulk Density (kg/m <sup>3</sup> )	300 – 700 kg/m <sup>3</sup>
	Specific Gravity	2.31
	Solubility (Water)	Insoluble in water. @ pH 6.8 and 20°C
	Solubility (Other)	Not available.
	Partition Coefficient (n-Octanol/water)	Not available.
	Auto Ignition Temperature (°C)	430°C
	Decomposition Temperature (°C)	Not available.
	Viscosity (mPa.s)	Not applicable.
	Explosive properties	Not explosive.
	Oxidising properties	Not oxidising.
<b>9.2</b>	<b>Other information</b>	The physical and chemical properties of used (spent) material may be different to those of virgin activated carbon.

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**10. SECTION 10: STABILITY AND REACTIVITY**

<b>10.1</b>	<b>Reactivity</b>	Stable under normal conditions.
<b>10.2</b>	<b>Chemical stability</b>	Stable under normal conditions.
<b>10.3</b>	<b>Possibility of hazardous reactions</b>	Contact with strong oxidizing agents may result in rapid combustion/possible explosion.
<b>10.4</b>	<b>Conditions to avoid</b>	Operating temperature >200°C. Keep from direct sunlight.
<b>10.5</b>	<b>Incompatible materials</b>	Strong oxidising agents and Acids.
<b>10.6</b>	<b>Hazardous Decomposition Product(s)</b>	No hazardous decomposition products known.

**11. 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 toxicological effects**

**11.1.1 Substances**

**Acute toxicity**

Ingestion

Unlikely to be hazardous if swallowed.

LD50(rat) (female) = >2000 mg/kg bw

Inhalation

Unlikely to be hazardous by inhalation unless present as a dust.

LD50(rat) = >64.4 mg/l

LC100(rat) = 235 mg/l

Skin Contact

Unlikely to cause harmful effects.

Eye Contact

Unlikely to cause harmful effects.

**Skin corrosion/irritation**

Unlikely to cause skin irritation.

**Serious eye damage/irritation**

Not classified.

**Respiratory or skin sensitization**

It is not a skin sensitiser.

**Germ cell mutagenicity**

There is no evidence of mutagenic potential.

**Carcinogenicity**

No evidence of carcinogenicity. No data.

**Reproductive toxicity**

Not classified.

**STOT - single exposure**

No information available.

**STOT - repeated exposure**

No information available.

**Aspiration hazard**

Not applicable.

**11.2 Other information**

None.

**12. SECTION 12: ECOLOGICAL INFORMATION**

<b>12.1</b>	<b>Toxicity</b>	Low toxicity to aquatic organisms. No data.
<b>12.2</b>	<b>Persistence and degradability</b>	Not readily biodegradable.
<b>12.3</b>	<b>Bioaccumulative potential</b>	The substance has no potential for bioaccumulation.
<b>12.4</b>	<b>Mobility in soil</b>	Insoluble in water. The substance is predicted to have low mobility in soil.
<b>12.5</b>	<b>Results of PBT and vPvB assessment</b>	Not classified as PBT or vPvB.
<b>12.6</b>	<b>Other adverse effects</b>	A water slurry containing large quantities of HDS carbon may display high pH values.

**13. SECTION 13: DISPOSAL CONSIDERATIONS**

<b>13.1</b>	<b>Waste treatment methods</b>	Recover or recycle if possible. Dispose of wastes in an approved waste disposal facility.
<b>13.2</b>	<b>Additional Information</b>	Spent activated carbon may require specific disposal considerations. Disposal should be in accordance with local, state or national legislation.

#### 14. SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous for transport.

14.1	<b>UN number</b>	Not applicable.
14.2	<b>UN Proper Shipping Name</b>	Not applicable.
14.3	<b>Transport hazard class(es)</b>	Not applicable.
14.4	<b>Packing Group</b>	Not applicable.
14.5	<b>Environmental hazards</b>	Not applicable.
14.6	<b>Special precautions for user</b>	Wet activated carbon depletes oxygen from air. Therefore, low oxygen work procedures should be in place for vessels containing activated carbon.
14.7	<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
14.8	<b>Additional Information</b>	None.

#### 15. SECTION 15: REGULATORY INFORMATION

15.1	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
15.1.1	<b>EU regulations</b>	
	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.
15.1.2	<b>National regulations</b>	None known.
15.2	<b>Chemical Safety Assessment</b>	A REACH chemical safety assessment has been carried out.

#### 16. SECTION 16: OTHER INFORMATION

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

Revision 5 is a combined MSDS for powdered and non-powdered activated carbons (HDS).

#### LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
STOT	Specific Target Organ Toxicity
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
vPvB	very Persistent and very Bioaccumulative
LD50	Median Lethal Dose
LC100	Absolute Lethal Concentration

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**Annex to the extended Safety Data Sheet (eSDS)**

Not applicable.