

Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH)

BROWNELL
L I M I T E D

Trade Name: Brownell Limited
Product No: 3mm Activated Carbon Pellets
Version No: MCS/121 - 01 / EN

Revision Date: 03.01.2017
Print Date: 03.01.2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name or designation of the mixture ENVIROCARB AP3-50
Registered numbers 01-2119488894-16-0001, 01-2119488894-16-0002, 01-2119488894-16-0007, 01-2119488894-16-0008
Synonyms Issue Steam activated (non-impregnated), 3mm carbon pellets are used principally to adsorb organic contamination from gaseous and liquid media.
Date Version 03rd January 2017
Number Revision 01
Date Supersedes Not applicable

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

Identifier uses Adsorbent, which includes various uses such as deodorisation, purification and decolourisation of liquid and gas.
Uses advised against No other uses are advised

1.3 Details of the supplier of the safety data sheet

Supplier Name Brownell Limited
Address Unit 2, Abbey Road Industrial Park
Commercial Way
Park Royal
London
NW10 7XF
Country UK
Telephone +44 (0) 208 965 9281
Fax +44 (0) 208 965 3239
Email info@brownell.co.uk
Contact Neil Partridge
Website www.brownell.co.uk

1.4 Emergency telephone number +44 (0) 20 8838 8408 – (08:00 – 17:00) office hours

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

This product has no classification under CLP.

Classification according to Regulation (EC) No. 1272/2008 as amended

This substance does not meet the criteria for classification according to the Regulation (EC) 1272/2008 as amended.

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Physical hazard Not classified as a physical hazard.
Human health hazard Not classified as a health hazard.
Environmental hazard Not classified as an environmental hazard.

Addition information Not applicable

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

Product identifier Not applicable

Hazard statements Not applicable

Precautionary statements Not applicable

Supplemental hazard information Not applicable

Special rules for supplemental label elements for certain mixtures Not applicable

Additional labeling Not applicable

2.3 Other hazards

Caution – Wet activated carbon removes oxygen from air causing severe hazard to workers inside vessels or enclosed or confined spaces containing activate carbon. Before entering such an area, following the sampling and work procedures for low oxygen levels. Contact with airbourne dust may be slightly irritating to eyes and respiratory tract. Observe all local and national regulations.

PBT: This product is not identified as a PBT/vPvB substance

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name	Activated Carbon
CAS No	7440-44-0
EINECS No	931-328-0
REACH No	01-2119488894-16-0001, 01-2119488894-16-0002, 01-2119488894-16-0007, 01-2119488894-16-0008

Purity Not Applicable
Synonyms Activated Carbon
Stabilisers Not Applicable
Hazard Impurities Not Applicable

3.2 Mixtures

Additional information Not applicable
This mixture does not contain further substances fulfilling the criteria of hazard class “acute toxicity” according.

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SECTION 4: First Aid measures

General information If exposed or concerned, get medical advice/attention. Show this safety data sheet to the doctor in attendance.

4.1 Description of first aid measures

Skin contact Activated carbon dust may cause slight skin irritation. Washing with soap and water should relieve this irritation.

Eye Contact Contact between the eye and activated carbon dust may cause irritation. Immediately flush eyes with copious amounts of water for at least 15 minutes.

Ingestion Ingestion of activated carbon dust may irritate the digestive tract. Rinse out mouth with plenty of water; seek medical attention if symptoms develop or persist.

Inhalation Inhalation of activated carbon dust maybe of irritation of the throat with a feeling of tightness in the chest. No harmful effects are anticipated but if a problem develops, remove the affected person immediately from the source of exposure to fresh air and give oxygen if required.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact There may be mild irritation at the site of contact.

Eye Contact There may be irritation and redness.

Ingestion No symptoms

Inhalation There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / Immediate effects Not applicable

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor Not Applicable

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Water, water spray, carbon dioxide, polymer foam and dry chemical powder.

Unsuitable extinguishing media Not applicable and unused material will not burn.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

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5.3 Advice for firefighters

Additional information

Special protective equipment for fire-fighters - Full protective clothing must be worn in case of fire and wear self-contained breathing apparatus equipment for surrounding fire.

SECTION 6: Accidental release measure

6.1 Personal precautions, protective equipment and emergency procedures.

For non-emergency personnel

Protective equipment

Avoid inhalation of dust from the spilled material. Wear a dust mask if dust is generated above exposure limits. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation.

Emergency procedures

Keep unnecessary personnel away.

6.2 Environmental precautions

Do not discharge into drains and rivers.

6.3 Methods and materials for containment and cleaning up

For containment

Contain spillage and transfer into a suitable container for disposal.

For cleaning up

Sweep up carefully to avoid the generation of dust during clean-up and collect in suitable container for disposal. Remove from the spillage location. When disposed, report in accordance with local and national regulations.

6.4 Reference of other sections

Additional information

Not applicable.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Protective measures

Advice on safe handling

Wear appropriate personal protective equipment. Do not breathe dust from this material, avoid creating any dust and direct contact with skin and eyes as this may cause irritation when handling substance.

Fire preventions

Smoking is forbidden around the substances.

Aerosol and dust generation preventions

Avoid the formation or spread of airborne dusts to a minimum. Provide sufficient ventilation at places where dust is formed.

Environment precautions

No special environmental precautions required.

Advice on general occupational hygiene

Observe good industrial hygiene practices.

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7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions	Store in a cool, well-ventilated area. Keep away from sources of ignition. Keep container tightly closed. Avoid incompatible materials and conditions of strong oxidising agents.
Packaging materials	Keep all material in an air-tight container, must only be kept in original packaging and material is hygroscopic.
Requirements for storage rooms and vessels	All containers must be kept in a dry, cool place. Store in a well-ventilated place.
Hints on storage assembly:	
Storage class	Not Available
Materials to avoid	Not Applicable

7.3 Specific end uses

Recommendations	Not applicable
Specific end uses	The specified uses for this material are shown in section 1 (1.2) of the document.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

8.1.1 Occupational exposure limits:

UK. EH40 Workplace Exposure Limits (WELs)

Substance Name	EINECS No	CAS-No	Type	Value	Occupational exposure limit value	
					Long Term	Short Term
Activated Carbon HDS	931-328-0	7440-44-0	TWA	OES 1mg/m ³	8 Hours	-

8.1.2 Biological limits values No biological exposure limits noted for the ingredient(s).

8.1.3 Exposure limits at intended use Not applicable

8.1.4 DNEL/PNEC-values No data available

8.1.5 Risk management measures according to used control banding approach Not applicable

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8.2 Exposure controls

8.2.1 Appropriate engineering controls: Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure; ensure there is sufficient ventilation of the area and control of process conditions.

8.2.2 Personal protective equipment

Eye / Face protection:

Suitable eye protection Wear suitable eye protection (safety glasses with side shields). Ensure eye bath is to hand.

Skin protection:

Hand protection Suitable gloves can be recommended by the glove supplier.

Body protection Protective clothing with elasticated cuffs and closed neck.

Respiratory protection Approved particulate filter is recommended, if excessive dust is generated, avoid inhalation of dust. Wear suitable respiratory protection equipment if working in confined spaces with inadequate ventilation or whenever there is any risk of the exposure limits being exceeded.

Thermal hazards None known

8.2.3 Environmental exposure controls Preventing from entering in public sewers or the immediate environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:

Physical state: Pellets **Colour:** Black **Odour:** Odourless **Solubility in water:** Insoluble

pH Not Applicable

Melting Point/Freezing point Not Applicable

Boiling Point Not Applicable

Flash Point Not Applicable

Evaporation rate Not Available

Flammability (solid, gas) Non-flammable

Upper/lower flammability or explosive limits

Upper explosive limits Not Applicable

Lower explosive limits Not Applicable

Vapour pressure Not Available

Vapour density Not Available

Relative density Not Available

Solubility(ies) Not Available

Partition coefficient: Not Available

n-octanol/water

Auto-ignition temperature Not Available

Decomposition temperature Not available

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Viscosity	Not available
Viscosity, dynamic	Not available
Viscosity, cinematic	Not available
Explosive properties	Not available
Oxidising properties	Not available

9.2 Other information:

Physical hazards	
Explosives:	Not available
Flammable gases:	Not applicable
Flammable aerosols:	Not applicable
Oxidising gases:	Not available
Gases under pressure:	Not available
Flammable liquids:	Not applicable
Flammable solids:	Not applicable
Self-reactive substances and mixtures	Not available
Pyrophoric liquids	Not available
Pyrophoric solids	Not available
Self-heating substances and mixtures	Not available
Substances or mixtures which, in contact with water emit flammable gases	Not available
Oxidising liquids	Not available
Oxidising solids	Not available
Organic peroxides	Not available
Metal corrosion	Not available

SECTION 10: Stability and reactivity

10.1 Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport
10.2 Chemical stability	Material is stable under normal conditions and hygroscopic
10.3 Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use
10.4 Conditions to avoid	Sources of ignition.
10.5 Incompatible materials	Strong oxidising agents
10.6 Hazardous decomposition products	In combustion emits toxic fumes of carbon dioxide / carbon monoxide

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

11.1.1 Substances

Acute toxicity: Animal data

Substance	Effect dose / concentration	Value	Species
Acute dermal toxicity	-	0	Rabbit
Acute inhalation	1H LC50	>64.4mg/l	Rat
Acute oral toxicity	LD50	>2,000mg/kg	Rat

Skin corrosion/irritation

There may be mild irritation at the site of contact.

Eye damage/irritation

There may be irritation and redness.

Sensitisation to the respiratory tract/skin

There may be irritation of the throat with a feeling of tightness in the chest.

Germ cell mutagenicity

No data available

Carcinogenicity

Activated carbon is not classifiable as to its carcinogenicity to humans (Group 3).

Reproductive toxicity

No data available

Specific target organ toxicity (single exposure)

No data available

Specific target organ toxicity (repeated exposure)

No data available

Aspiration hazard

Dust may irritate lungs. Activated carbon is not known to cause silicosis.

Physical, chemical and toxicological characteristics

In case of ingestion

No symptoms

In case of skin contact

Dust may have a drying effect on the skin and mild irritation.

In case of inhalation

Activated carbon has little adverse effect on lungs and does not produce significant disease or toxic effect when exposure is kept below the permitted limits. However existing medical conditions (e.g. asthma, bronchitis) may be aggravated by exposure to dust. Effects of dust may be greater and occur at lower levels of exposure in smokers compared to non-smokers.

In case of eye contact

Dust may cause discomfort and mild irritation.

11.1.2 Mixtures

No data available

SECTION 12: Ecological information

12.1 Toxicity

Species	Test	Value	Units
Algae	72H IC50	Exempt	-
Daphnia	48H EC50	Exempt	-
Fish	96H LC50	Exempt	-

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12.2 Persistence and degradability	Does not biodegrade.
12.3 Bioaccumulative potential	Does not bioaccumulate.
12.4 Mobility in soil	Non-volatile and insoluble in water.
12.5 Results of PBT and vPvB assessment	This substance is not classified as PBT or vPvB according to current EU criteria.
12.6 Other adverse effects	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product / packaging disposal	Dispose of as normal industrial waste.
Waste codes / waste designations according to EWC/AVV	15 02 03
Packaging	No data available
Waste treatment options	Disposal of in accordance with all applicable local and national regulations. This material is not classified as special waste under UK Special Waste Regulations 1996 and can be disposed of by landfill at an approved site.
Other disposal recommendations	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

14.1 UN No.	Not classified as dangerous goods under the United Nations Transport Recommendations.
14.2 UN Proper Shipping name	Not applicable.
14.3 Transport hazard class(es) Hazard label(s)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	Not applicable.
14.6 Special precautions for user	Not applicable.

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14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
Land transport (ADR/RID)	Not regarded as dangerous goods
Inland Waterway transport (ADN)	Not regarded as dangerous goods
Sea transport (IMDG)	Not regarded as dangerous goods
Air transport (ICAO-TI / IATA-DGR)	Not regarded as dangerous goods

SECTION 15: Regulatory information

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

15.1.1 EU regulations

Authorisations: Not applicable
Restrictions on use: Not applicable

15.1.2 National regulations Not Available

15.2 Chemical safety assessment A chemical safety assessment has been carried out for the substance or the mixture by the supplier.

SECTION 16: Other information

16.1 Indication of changes MSDS first issued 03rd January 2017

16.2 Abbreviations and acronyms Not applicable

16.3 Key literature references and sources for data ECHA European Chemicals agency

16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP] Regulation (EU) No. 1272/2008: Classification, labelling and packaging of substances and mixtures. The product does not need to be labelled in accordance with Directive 67/548/EEC. Not classified as a hazardous substance or mixture according to Directive 1999/45/EC. This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

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Not classified as UN1362 for transport purposes, exemption under special provisions 646 (ADR), 925 (IMDG) and A3 (IATA)

16.5 Relevant R-, H- and EUH-phrases (number and full text) Not applicable

16.6 Training advice Follow training instructions when handling this material.

16.7 Further information Not available.

Disclaimer

The information provided in the SDS is correct to the best of our knowledge at the date of publication. This document is intended as a guide for safe handling, storage and use in known industrial applications. The manufacturer makes no representation, warranty or guarantee as to its accuracy, reliability or completeness nor assumes any liability for its use. It is the users responsibility to confirm in advance that the information is current, applicable and suitable to their circumstances for each particular use. No representative of ours has authority to waive this provision.