



AMDEX Pte Ltd.
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MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL

PRODUCT NAME :	ACTIVATED CARBON (STEAM ACTIVATED)
OTHER NAME :	ACTIVATED CHARCOAL; CARBON BLACK; DECOLOURISING CARBON
RECOMMEDED USE :	Filtration of liquids and gases, Solvent recovery, Decolourisation, Pharceuticals
SUPPLIER NAME :	AMDEX Pte Ltd
ADDRESS :	100 Tras Street #16-01 The Amara Corporate Tower Singapore 079027
EMAIL :	amdex.sgp@gmail.com

2. HAZARDS IDENTIFICATION

HAZARD CLASIFICATION :	Classified as non-hazardous according to criteria of ASCC. Not classified as dangerous good according to the criteria of ADG Code (see section 14). Not classified as schedule poison according to the criteria of SUSDP (see section 15)
HAZARD CATEGORY :	NONE
RISK PHRASES :	NONE
SAFETY PHRASES :	S22 - Do not breathe dust

The information contained in this MSDS is specific to the product when handled and used neat. This product when diluted may not require the same control measures as neat product. Check with your techical representative if in doubt.

3. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT	Cas No.	PROPORTION (%w/w)
The ingredient below are considered either hazardous, dangerous goods or poison scheduled according to the criteria of ASCC, ADG Code and SUSDP (respectively) at the levels used in the product.		
NO INGREDIENTS		



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The ingredients below are **not** considered either **hazardous, dangerous goods or poison scheduled** according to the criteria of ASCC, ADG Code and SUSDP (respectively) at the levels used in the product.

Activated carbon	7440-44-0	100%
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4. FIRST AID MEASURES

INDESTION : For Advice, contact a Poison Information Centre (Phone Australia 131126, New Zealand 0800 764766) or a doctor. If swallowed, do NOT induce vomiting. Give several glasses of water to drink. If large quantities are ingested seek immediate attention.

EYE CONTACT : If in eyes, hold eyelid apart and flush the eye continuously with running water. Continue flushing for at least 15 minutes. Seek medical attention.

SKIN CONTACT : If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If irritation persist seek medical advice.

INHALATION : Remove from sources of exposure to fresh air. Seek medical assistance if the effects persist.
****SHOW THIS SAFETY DATA SHEET TO A DOCTOR****

FIRST AID FACILITIES : Potable water should be available to rinse eyes or skin. Provide eye baths and safety showers.

NOTES TO PHYSICIAN : Treat symptomatically.

5. FIRE FIGHTING METHODS

SUITABLE EXTINGUISHING MEDIA : Water spray, foam, carbon dioxide or dry chemical powder.

HAZARDS FROM COMBUSTION : Combustion solid: will burn under fire conditions. Involvement in a fire causes formation of carbon dioxide and carbon monoxide. The packaging material may burn to emit noxious fumes. May become a flammable dust when finely divided and suspended in air.

PRECAUTIONS FOR FIRE FIGHTERS AND SPECIAL PROTECTIVE EQUIPMENT : Fire fighters should wear self-contained breathing apparatus to minimize risk to exposure to vapour or products of combustion. Wet activated carbon depletes oxygen from the air.

HAZCHEM CODE : NONE

6. ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES : Remove all sources of ignition, sparks and open flames. Ensure adequate ventilation work up wind or increase ventilation. Keep spectators away - rope off area. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination.



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METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP :	Contain the spill and prevent contaminatin into confined area, drains and waterways. Avoid generating dust. Carefully scoop up, or shovel up uncontaminated product for re-use. Sweep up contaminated materail and seal in properly labeled drums for disposal in an area approved by authority by laws.
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7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING :	Keep containers closed at all times - check regularly for leaks and spills. Transport and store upright. Avoid eye contact and repeated or prolonged skin contact. Do not eat, drink or smoke in contaminated areas. Always remove contaminated clothing and other equipment before storage or re-use.
CONDITIONS FOR SAFE STORAGE :	Store in the original container, in a cool dry well-ventilated area out of sunlight and away from oxidising agents and other incompatible materials. Avoid dust generation, moisture, excess heat and sources of ignition. Wet activated carbob depletes oxygen from the air and therefore dangerously low level of oxygen may be encountered in confined spaces. Keep containers tightly closed when not in use to ensure contamination. Do not mix with other chemicals. Containers of this material may be hazardous when empty since the retain product residues (dust, solids); observe all warnings and precautions listed for the product. Prolonged accumulation of pipes, ledges of building can present a fire hazard. Dust deposits should be removed regularly.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

NATIONAL EXPOSURE STANDARDS :	No value assigned for this specific materail by ASCC, however as published by ASCC the recommend exposure standard for dust in general should be 10 mg/m ³ , measured as inspirable dust.
BIOLOGICAL LIMIT VALUES :	No biological limit allocated
ENGINEERING CONTROLS :	Ensure ventilation is adequate to maintain air concentration below Exposure Standards. Use with local exhaust ventilation or while wearing a respirator. Keep containers closed when not in use.
PERSONAL PROTECTIVE EQUIPMENT :	It is recommended that protective equipment is worn at all times. Risk assessments should be always conducted to identify the hazards and in turn determine appropriate personal protective equipment for the hazard. Recommended protective gloves: elbow-length natural rubber or nitrile impervious gloves. Always check with the gloves manufacturer or yuir personal protective equipment supplier regarding the correct type of glove to use/. Consult AS/NZS 2161 for further information. Eye protection: safety glasses/goggles with side shield protection. Consult AS/NZS 1336



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and AS/NZS 1337 for further information.

Recommended clothing and footwear: overalls or trousers, long sleeved shirt, closed in shoes and / or safety footwear. Consult AS/NZS 2210 and AS/NZS 2919 for further information.

Recommended respiratory protection. Avoid breathing dust. Where ventilation is not adequate, respiratory is required. Any P1 or P2 particulate filter respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

9. PHYSICAL AND CHEMICALS PROPERTIES

APPEARANCE :	Fine, black powder
ODOUR :	Odourless
PH (SOLUTION) :	No informaton available
SPECIFIC GRAVITY OR DENSITY :	2.0 g/cm3
VAPOUR PRESSURE :	No informaton available
PERCENT VOLATILES :	No informaton available
BOILING POINT :	No informaton available
MELTING POINT :	Approx. 3600°C
SOLUBILITY :	Insoluble in water
FLASH POINT :	Combustible solid
FLAMMABILITY LIMITS :	No informaton available
IGNITION TEMPERATURE :	No informaton available
SHELF LIFE :	2 years from manufacturing date (when stored as directed)
OTHER :	NONE

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY :	Stable under normal conditions of use. The shelf life is 2 years.
CONDITION TO AVOID :	Heat, moisture and incompatibles. Do not combine part drums of the same product, as this may be a source of contamination. Fire is possible at elevated temperatures. Do not expose materail to intense heat ot temperature. This product may become a flammable dust when finely divided and suspended in air. Keep clear of ignition, sparks and open flames.
INCOMPATIBLE MATERIALS :	Strong oxidising agents such as ozone, liquid oxygen, chlorine, permanganate, etc may result in rapid combustion. Avid contact with strong acids.
HAZARDOUS DECOMPOSITION PRODUCTS :	Involvement in a fire causes formation of carbon dioxide and carbob monoxide. The packaging may burn to emit noxious fumes.
HAZARDOUS REACTIONS :	No information available



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11. TOXICOLOGY INFORMATION

No adverse health effects expected if the products is handled in accordance with this Safety Data Sheet and the product label.
Symptoms or effects that may arise if the product is mishandled and overexposure occurs are :

ACUTE EFFECTS INGESTION :	Ingestion of large quantities may irritate the gastric tract nausea and vomiting.
EYE CONTACT :	May irritate the eyes
SKIN CONTACT :	May cause skin irritation. Highly sensitive individuals occasionally experience irritation through handling fine powders.
INHALATION :	Capable of causing irritation to the nose, throat and lung if dusty
LONG TERM EFFECT :	No information available
ACUTE TOXICIT / CHRONIC TOXICITY :	Chronic exposure to dust may cause pulmonary disorders

12. ECOLOGICAL INFORMATION

ECOTOXICITY :	Avoid contaminating waterways.
PERSISTENCE AND DEGRADABILITY :	No information available.
MOBILITY :	No information available.
OTHER :	NONE

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS :	Empty containers should be forwarded to an approved agent for recycling. Avoid unauthorized discharge to sewer.
SPECIAL PRECAUTIONS FOR LANDFILL OR INCINERATION :	The product is suitable for disposal by landfill through approved agent.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT :	Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.
UN NUMBER :	NONE
UN PROPER SHIPPING NAME :	NONE
CLASS AND SUBSIDIARY RISK (S) :	NONE
PACKAGING GROUP :	NONE
HAZCHEM CODE :	NONE
SEGREGATION DANGEROUS GOODS :	NONE



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MARINE TRANSPORT :	Not classified as Dangerous Goods by the criteria of the International Maritime dangerous Goods Code (IMDG Code) for transport by sea.
UN NUMBER :	NONE
UN PROPER SHIPPING NAME :	NONE
CLASS AND SUBSIDIARY RISK (S) :	NONE
PACKAGING GROUP :	NONE
AIR TRANSPORT :	Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) for transport by air.
UN NUMBER :	NONE
UN PROPER SHIPPING NAME :	NONE
CLASS AND SUBSIDIARY RISK (S) :	NONE
PACKAGING GROUP :	NONE

15. REGULATORY INFORMATION

POISON SCHEDULE (AUST.) :	Not scheduled
APVMA STATUS :	Not relevant
TGA STATUS :	Not relevant
AICS STATUS :	All the constituents of this product are listed.
AQIS STATUS :	Not relevant
OTHER :	Not relevant

16. OTHER INFORMATION

GENERAL INFORMATION : NONE
MSDS ISSUE NUMBER : 001
MSDS ISSUE DATE : 02 JUNE 2009
In any event, the review and, if necessary, the re-issue of a MSDS shall be no longer than 5 years after the late date of issue.

REASON(S) FOR ISSUE : 001: New document for steam activated carbon. Classified as a non-dangerous goods as carbons made by a steam activation process are not subject to the provision of ADG code.
THIS ISSUE NUMBER REPLACES ALL PREVIOUS ISSUES.

LITERARY REFERENCE :
SOURCES FOR DATA :

LEGEND :

AICS	Australian Inventory of Chemical Substance
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APVMA	Australian Pesticides and Veterinary Medicines Authority
AQIS	Australian Quarantine and Inspection Service
AS	Australian Standard (as issued by Standards Australia)
ASCC	Australian Safety and Compensation Council (formerly NOHSC)
ERP Cod	Emergency Response Drill Code as found in the ICAO (International Civil Aviation Organisation) Doc 9481
MSDS	Material Safety Data Sheet
NOHSC	National Occupational Health and Safety Commission
STEL	Short Term Exposure Limit- A 15 minute TWA exposure which should not be exceeded at any time during a working day even if the eight-hour TWA average is within the TWA exposure standard. Exposures at the STEL should not be longer than 15 minutes and should not be repeated more than four times per day. There should be at least 60 minutes between successive exposures at the STEL.
TGA	Therapeutic Goods Administration
TLV	Threshold Limit Value - TLV is proprietary name registered by the American Conference of Governmental Industrial Hygienist (ACGIH) and refers to airborne concentrations of substances or levels of physical agents to which it is believed that nearly all workers may be repeatedly exposed day after day without adverse effect.
TWA	Time Weighted Average - The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day working week.

This MSDS has been prepared from current technical data and summarises at the date of issue our best knowledge of health and safety information of the product, and in particular safety handling and use of the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product sold is subject to our standard terms and conditions, a copy of which is sent to our customer and is also available upon request.

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End of MSDS