

CONCEPTS ECOTECH SDN BHD (962949-W)

Lot 24930, Batu 11,
Jalan Segenting,
42500, Teluk Panglima Garang,
Selangor Darul Ehsan
Tel: +603-31221422

MATERIAL SAFETY DATA SHEET

1. MATERIAL/PREPARATION AND COMPANY NOMENCLATURE	
1.1	PRODUCT DATA/TRADE NAME
1.2	PRODUCER/SUPPLIER
2	POSSIBLE DANGERS
3	COMPOSITION/ANALYSIS OF CONTENTS
3.1	Chemical characterization/chemical Description

STEAM ACTIVATED CARBON Activated carbon is a black odorless non-volatile infusible substance in granular, extruded or powder form. It is used as an adsorbent in a wide range of gaseous and liquid applications.	
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Special Hazards Activated carbon is a mild reducing agent and reacts with strong ozone which can promote its combustion. At high temperatures (above 750° celsius) activated carbon react with water producing Hydrogen and Carbon monoxide, which are flammable, and explosive gases. Hence water should only be used as a copious spray for firefighting in order to ensure rapid cooling of the material.	
PREPARATION CARBONACEOUS ADSORPTION MEDIUM Component NIOSH NO CAS NO %by weight Activated carbon FF5250 00 7440 44 0 100	

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4 FIRST AID MEASURES	EYES Carbon dust can cause irritation in contact with the eyes. Flush with copious quantities of water without delay. SKIN Due to its dehydrating property, activated carbon can cause slight irritation in contact with the skin in certain cases. Washing with soap and water is recommended to relieve the condition. INGESTION Ingested activated carbon may irritate the digestive tracts. As no harmful effects are anticipated vomiting should not be induced. INHALATION Inhalation of activated carbon dust can cause irritation of the respiratory tracts and may produce coughing and sneezing. No harmful effects are anticipated but if an acute problem develops, move the affected person to a clean area, administer oxygen if required and seek expert medical attention PROTECTIVE MEASURES EYES Approved safety glasses offering full eye protection should be worn as a minimum. Where a dusty atmosphere can be anticipated, dust tight goggles should be worn. RESPIRATION A dust mask meeting EN or NIOSH regulation should be worn whilst handling this product. CLOTHING Where product is continuously or frequently handled, glove should be worn and/or a good barrier cream used before starting work. Overalls should also be worn.
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5 FIRE FIGHTING ACTIONS	
5.1 Suitable fire fighting media	Powder, foam, sand, water (if nothing else available)
5.2 Unsuitable fire fighting media	None
5.3 Particulars hazards arising from the material, its combustion products or gases generated	As product of combustion mainly co and co2 result
5.4 Special safety equipment	In closed spaces breathing apparatus with external air supply might be necessary
5.5 Additional measures	Vessel should be cooled using water spray
6 ACTION ON SPILLAGE	
	Splits material may be taken up mechanically
7 HANDLING AND STORAGE	
7.1 Handling - Hints to avoid fires Explosions	Keep away from ignition hazards
7.2 Storage	Do not store in the proximity of flammable material
8 LIMITS OF EXPOSURE AND PERSONAL SAFETY EQUIPMENT	
	Wet activated carbon can react with oxygen to sufficient extent to make the atmosphere dangerous for human life. Entry to enclosed spaces containing activated carbon must only be allowed when adequate precaution have beentaken to ensure ventilation of the space with fresh air and for the atmosphere to be monitored continuously to ensure adequate oxygen content for respiration. A suitable safe system of work should be employed in full accordance with local, state or federal regulations.

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9 PHYSICAL AND CHEMICAL CHARATERISTICS	
9.1 Appearance	
Form	Solid, Cylindrical and powder
Colour	Black
Smell	Odorless
9.2 Safety relevant sheet	
Bulk density	240 to 600 kg/m3
Possibility of self-ignition	NONE
Temperature of ignition	>380°C
Explosion hazard	NONE
pH value	NOT APPLICABLE
Solubility	INSOLUBLE IN WATER AND ORGANIC SOLVENTS
10 STABILITY AND REACTIVITY	
10.1 Condition to be avoided	No decomposition
10.2 Compunds to be avoided	NONE
10.3 Hazardous Decomposition Products	NONE
11 TOXICOLOGICAL DATA	Products are toxilogically safe
12 ECOLOGICAL DATA	Products are ecologically safe
13 WASTE MANAGEMENT DATA	Can be recycled. Contact manufacturer for details.

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14	TRANSPORT DATA	Non-hazardous material according to GGVS/ADR Non-hazardous material according to IATA Note :Steam activated carbon pass the test for self-hating substances as reflected in the United Nations Recommendations on the Transport of dangerous Goods,manual of Tests and criteria and is not considered spontaneously combustible.Therefore,the provisions for shipping steam activated carbon,class 4.2,in the IATA,ICAO,and IMDG Code publications do not apply to shipments of this material.
15	REGULATIONS	Labelling is not required. National regulations do not exist
16	OTHER SPECIFICATIONS	The data above reflects our present knowledge. It describe our product with respect to safety regulations. A warranty of certain characteristics is not given in any way.