

SAFETY DATA SHEET
COAL BASE ACTIVATED CARBON

1. Chemical Product And Company Identification

1.1 Product Data/Trade Name	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.
1.2 Company Identification	SOON NGAI ENGINEERING SDN BHD No 21, 23, 25 & 27, Jalan PBS 14/8 Taman Perindustrian Bukit Serdang 43300 Seri Kembangan, Selangor Tel : +603-8945 1067 Fax : +603-8945 1064 / 8941 6270

2. Hazard Identification

<p>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.</p>
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3. Composition/Analysis Of Contents

2.1 Chemical Characterization/ Chemical Description	PREPARATION CARBONACEOUS ADSORPTION MEDIUM								
	<table> <thead> <tr> <th>Component</th> <th>NIOSH NO</th> <th>CAS NO</th> <th>% By Weight</th> </tr> </thead> <tbody> <tr> <td>Activated Carbon</td> <td>FF5250 00</td> <td>7440 44 0</td> <td>100</td> </tr> </tbody> </table>	Component	NIOSH NO	CAS NO	% By Weight	Activated Carbon	FF5250 00	7440 44 0	100
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4. First Aid Measures

4.1 Eyes	Carbon dust can cause irritation in contact with the eyes. Flush with copious quantities of water without delay.
4.2 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.
4.3 Ingestion	Ingested activated carbon may irritate the digestive tracts. As no harmful effects are anticipated vomiting should not be induced.
4.4 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.

4.5 Protective Measures	<p>EYES Approved safety glasses offering full eye protection should be worn as a minimum. Where a dusty atmosphere can be anticipated, dust light goggles should be worn.</p> <p>RESPIRATION A dust mask meeting EN or NIOSH regulations should be worn whilst handling</p> <p>CLOTHING Where product is continuously or frequently handled, gloves should be worn and/or a good barrier cream used before starting work. Overalls should also be worn.</p>
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5. Fire Fighting Measures

5.1 Suitable fire fighting media	Powder, foam, sand, water (if nothing else available)
5.2 Unsuitable fire fighting media	None
5.3 Particular hazards arising from the material, its combustion products or gases generated	As products of combustion mainly CO and CO ₂ 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. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures	
Personal precautions:	Avoid dust formation. Ensure adequate ventilation. Use personal protective equipment.
For emergency responders:	Use personal protection recommended in Section 8.
6.2 Environmental precautions	
Environmental precautions:	No special environmental precautions required. Local authorities should be advised if spillages cannot be contained.
6.3 Methods and material for containment	
Methods for containment:	Prevent further leakage or spillage if safe to do so.

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 materials

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 have been taken 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 Characteristics

9.1	Appearance Form Colour Smell	Solid, Cylindrical and Powder Black Odorless
9.2	Safety Relevant Sheet Bulk Density Possibility of ignition Temperature of ignition Explosion hazard pH value Solubility	240 to 600 kg/m ³ NONE >380° NONE NOT APPLICABLE INSOLUBLE IN WATER AND ORGANIC SOLVENTS

10. Stability And Reactivity

10.1	Conditions to be avoided	No Decomposition
10.2	Compounds to be avoided	None
10.3	Hazardous Decomposition Products	None

11. Toxicity Data

Products are Toxicologically safe

12. Ecological Data

Products are Ecologically safe

13. Waste Management Data

Can be recycled. Contact manufacturer for details

14. Transport Data

Non-hazardous material according to GGVS/ADR Non-hazardous material according to IATA
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15. Regulations

Labeling is not required. National regulations do not exist.
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16. Other Specifications

The data above reflects our present knowledge. It describes our products with respect to safety regulations. A warranty of certain characteristics is not given in any way.

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