MATERIAL SAFETY DATA SHEET
COCONUT SHELL BASE ACTIVATED CARBON
(GRANUAR/POWDER)

1. Material/ Preparation And Company Nomenclature

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 Address Tel	Soon Ngai Engineering Sdn Bhd No 21, 23, 25 & 27, Jalan PBS 14/8, Taman Perindustrian Bukit Serdang, 43300 Seri Kembangan, Selagnor +603-8945 1067

2. Composition/Analysis Of Contents

2.1	Chemical Characterization/ Chemical Description	PREPARATION CARBONACEOUS ADSORPTION MEDIUM

Component	NIOSH NO	CAS NO	% By Weight
Activated Carbon	FF5250 00	7440 44 0	100

3. Hazard Identification

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.
Emergency Overview	Black particulate solid, or powder. Contact may cause eye irritation. Dust may be slightly irritating to eyes and respiratory tract.
Caution	Wet activated carbon removes oxygen from air causing a severe hazard to workers inside carbon vessels and enclosed or confined spaces. Before entering such an area, sampling and work procedures for low observing all local, state and federal regulations.
Potential Health Effects	Effects and hazards of eye contact - The physical nature of the product may produce eye irritation Effects and hazards of skin contact - The product is not a primary skin irritation Effect and hazards of inhalation (Breathing) - The product is practically non-toxic through inhalation Effect and hazards of ingestion (Swallowing)

	- The product is no-toxic through ingestion

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	**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. **RESPIRATION** A dust mask meeting EN or NIOSH regulations should be worn whilst handling **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.

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	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. Action On Spillage

Spilt 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 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.

9. Physical And Chemical Characteristics

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 ignition	NONE
	Temperature of ignition	>380°
	Explosion hazard	NONE
	pH value	NOT APPLICABLE
	Solubility	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

15. Regulations

Labeling is not required. National regulations do not exist.

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 nit given in any way.