

MATERIAL SAFETY DATA SHEET

COMPANY: *Answers to Health and Happiness*

PRODUCT: ACTIVATED CARBON

SECTION 1	IDENTIFICATION OF THE MATERIAL & THE SUPPLIER
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Answers to Health and Happiness	Emergency Telephone Supplier: 0417 568 159
	Revision Date: 15/12/2014
	IDENTIFICATION
Chemical name or family: Product Name: Synonyms: Grade: Formula: Cas No.	Carbon Group Activated Carbon Activated Charcoal All coconut shell grade C 7440-44-0

SECTION 2	HAZARDS IDENTIFICATION
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Emergency Overview:

Wet Activated Carbon selectively removes oxygen from air. Precautions should be taken when entering even partially confined spaces containing activated carbon where oxygen may be depleted to hazardous levels.

Hazard Classification:

Eye Irritant, harmful if ingested in quantity.

Risk Phrases:

R36 Irritating to eyes
R37 Irritating to respiratory system

Safety Phrases:

S24 Avoid contact with skin
S24 Avoid contact with eyes
S24 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36 Wear suitable protective clothing

POTENTIAL HEALTH EFFECTS:

Medical Conditions Aggravated by Exposure: None documented

Routes of Exposure:

Eyes: Not corrosive, but like most particulate material may cause physical irritation.
Skin: Not corrosive and not a primary skin irritant. Mild irritation is possible due to abrasive action of dust.
Ingestion: No known deleterious effects
Inhalation: Possible mild irritation of respiratory tract due to drying and abrasive actions of dust.
Chronic Effects: IARC Not Listed NTP Not Found OSHA Not Regulated
HOHSC Not Regulated

According with the provision of the IMDG CODE, 2004 Edition (Amedt. 32.04) Carbon Activated of UN 1362 which is made by steam activation process in accordance with the special provision of 952 of Chapter 3.3 is classified as Non-dangerous. This Carbon manufacture Activated Carbon only by using steam activation process and therefore does not come under the dangerous good classification.

SECTION 3	COMPOSITION/INFORMATION ON INGREDIENTS
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SUBSTANCE:

Chemical Identity: Activated Carbon
CAS Number (s): 7440-44-0
% 100

SECTION 4	FIRST AID MEASURES
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Skin: Not expected to require first aid measures. Wash exposed area with soap and water. Seek medical attention if irritation develops.
Eyes: Wash thoroughly with running water for at least 15 minutes. Seek medical attention if irritation develops.
Ingestion: Give several glasses of water to drink to dilute. If large amounts were swallowed, seek medical attention.
Inhalation: Remove to fresh air. Get medical attention for any breathing difficulty.

SECTION 5	FIRE FIGHTING MEASURES
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Flash Point: 350°C
Flammable Limits in Air: LFL & UFL Not Applicable
Auto Ignition Temperature: 350°C

General Hazard:

Activated Carbon is difficult to ignite and tends to burn slowly (smolder) without producing smoke or flame. Toxic gases will form upon combustion.

Fire Fighting Instructions:

If possible to do safely, move smoldering activated carbon to a non-hazardous area, preferably out of doors. Extinguish fire using water, carbon dioxide, sand and foam. Avoid stirring up dust clouds.

Special Fire Fighting Procedure:

Since wet carbon adsorbs oxygen, do not enter closed vessels without using a self-contained breathing apparatus.

Hazards from Combustion Product:

Under certain conditions, any airborne dust may be an explosion hazard. Used activated carbon may produce additional combustion products.

SECTION 6	ACCIDENTAL RELEASE MEASURES
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IF A SPILL OR LEAK OCCURS:

Clean up spills in a manner that does not disperse dust into the air. Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of material from eyes, skin and clothing.

DISPOSAL METHOD:

Spent Activated Carbon may be recyclable. Dispose of virgin (unused) carbon (waste or spillage) in a facility permitted for non-hazardous wastes. Spent (used) carbon should be disposed of in accordance with the applicable laws.

CONTAINER DISPOSAL:

Do not re-use empty bags. Dispose of in a facility permitted for non-hazardous wastes.

SECTION 7	HANDLING AND STORAGE
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Storage Temperatures:	Ambient
Storage Pressure:	Atmosphere
Handling:	Follow good handling and housekeeping practices to minimize spills, generation of airborne dusts and accumulation of dusts on exposed surfaces. Use with adequate exhaust ventilation to draw dust away from workers breathing zones. Prevent or minimize exposures to dusts by using appropriate personal protection equipment. Wash exposed skin thoroughly with soap and water after handling.
Storage:	Keep in air freight packing to prevent pick up of odours and moisture from air.
Proper Shipping Name:	Activated Carbon

SECTION 8	EXPOSURE CONTROLS/PERSONAL PROTECTION
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Exposure Guidelines:	OSHA PEL* 5mg/m ³
	ACGIH TLV* 10mg/m ³

* PEL's & TLV's are 8 hour TWA's unless otherwise noted.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

Personal Respirators (NIOSH Approved):

For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive pressure, air-supplied respirator.

WARNING: Air-purifying respirators do not protect workers in oxygen deficient atmospheres.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use Chemical safety goggles. Maintain eye wash fountain and quick drench facilities in work area.

SECTION 9	PHYSICAL AND CHEMICAL PROPERTIES
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BOILING POINT:	Not applicable
VAPOUR PRESSURE:	Not applicable
SOLUBILITY IN WATER:	Insoluble
PARTICLE DENSITY:	Nominal 0.82 g/cc
BULK DENSITY:	0.50 g/cc
MELTING POINT:	Not applicable
EVAPORATION RATE:	Not applicable
APPEARANCE AND ODOUR:	Black irregular granules or powder. Odourless

SECTION 10	STABILITY AND REACTIVITY
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Stability:	This product is stable under specific conditions of storage, shipment and use.
Conditions to Avoid:	Avoid contact with strong oxidizing chemical and hydrocarbons
Hazardous Decomposition product / by product:	On burning carbon dioxide and carbon monoxide
Hazardous Polymerization:	Will not occur

SECTION 11	TOXICOLOGICAL INFORMATION
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Investigated as a reproductive effectors
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<u>Ingredient</u>	<u>Known</u>	<u>Anticipated</u>	<u>IARC Category</u>
Activated Carbon (7440-44-0)	No	No	None

SECTION 12	ECOLOGICAL INFORMATION
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Environmental Fate:	No information found
Environmental Toxicity:	No information found

SECTION 13	DISPOSAL CONSIDERATIONS
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Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14	TRANSPORT INFORMATION
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Proper Shipping Name:	Activated Carbon (Not Regulated)
Hazard Class:	Not Applicable
UN/NA Number:	Not Applicable
Packing Group:	Not Applicable

This product has been tested according to the United National Transport of Dangerous Goods test protocol for spontaneously combustible materials. It has been specifically determined that this product does not meet the definition of a self heating substance or any hazard class, and therefore is not a hazardous material and not regulated.

SECTION 15	REGULATORY INFORMATION
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SARA TITLE 111:	N/A
TSCA:	The ingredients of this product are on the TSCA Inventory List.
OSHA:	Non-hazardous according to definitions of health hazard and physical hazard provided in the Hazard Communication Standard. (29 CFR 1910.1200)

CANADA	
WHMIS CLASSIFICATION:	Not Classified
DSL#:	6798
EEC:	Council Directives relating to the classification, packaging and labeling of preparations.
Risk (R) and Safety (S) Phrases:	May be irritating to eyes (R36)

Do not enter vessels containing wet Activated Carbon before checking oxygen level. Vessels with limited ventilation may be low in oxygen due to the adsorbing characteristics of Activated Carbon. If necessary, use a NIOSH-breathing apparatus.

EMPLOYERS SHOULD USE THIS INFORMATION ONLY AS A SUPPLEMENT TO OTHER INFORMATION GATHERED BY THEM AND SHOULD MAKE INDEPENDENT JUDGEMENT OF SUITABILITY OF THIS INFORMATION TO ENSURE PROPER USE AND PROTECT THE HEALTH AND SAFETY OF EMPLOYEES. THIS INFORMATION IS FURNISHED WITHOUT WARRANTY AND ANY USE OF THE PRODUCT NOT IN CONFORMANCE WITH THIS MATERIAL SAFETY DATA SHEET OR IN COMBINATION WITH ANY OTHER PRODUCT OR PROCESS, IS THE RESPONSIBILITY OF THE USER.