

MATERIAL SAFETY DATA SHEET (MSDS)

PUBLICATION DATE 01/08/2015

SECTION 1 – CHEMICAL / PRODUCT AND COMPANY IDENTIFICATION

PRODUCT : BIOWOOD CHARCOAL BRIQUETTE
APPLICATION AREA : CHARCOAL
COMPANY : WS TROPICAL RESOURCES SDN BHD
ADDRESS : SUITE 910, BLOCK B, PHILEO DAMANSARA 2, JALAN 16/11, 46350, PETALING JAYA, SELANGOR, MALAYSIA

SECTION 2 – HAZARD IDENTIFICATION

RISK INDICATOR	
R22	Harmful is swallowed.
R 48/22	Causes serious health effect of prolonged exposure is swallowed.
R41	Causes serious damage to the eyes.
SECURITY INDICATOR	
S64	Rinse mouth with plenty of water.
S 1/2	Keep out of reach of children.
S28	In case of contact with skin, rinse immediately with plenty of water.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S45	In case of incidence if you feel unwell, seek medical advice immediately.

SECTION 3 – COMPOSITION & INFORMATION ON INGREDIENTS

COMPOSITE MATERIAL	CAS NO	EC NO	W/W5 (g)
CARBON	7440-44-0	231-153-3	55-75
HYDROGEN	133-744-0	215-605-7	1-5
SULPHUR	7704-34-9	231-722-6	0,01-0,07
OXYGEN	7782-44-7	231-956-9	0,5-1
NITROGEN	7727-37-9	231-783-9	0,5-1

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 4 – FIRST AID MEASURES

EYE : Wash immediately with plenty of water for 15 – 20 minutes, keeping eyelids open.
Consult a doctor immediately if a disturbing development.

SKIN : Use of the product should be stopped. Apply a cold compress to be affected areas to relieve any discomfort. If discomfort persists consult a physician.

INHALATION: If respiratory irritation occurs, remove person to fresh air immediately.

SECTION 5 – FIRE PRECAUTIONS

UNSUITABLE EXTINGUISHING AGENT / METHOD:

NONE

ARISING FROM THE COMBUSTION HAZARDOUS SUBSTANCE:

NONE

FIRE FIGHTING PROTECTIVE EQUIPMENT:

Fire – fighting team respiratory plug-and clothing
Must wear protective equipment

EXTINGUISHING MEDIA:

Chemical Foam, Dry Chemical, Carbon Dioxide or water.

EXPLOSION HAZARD:

If the release of large quantities of the product when combined with the product of combustion from sources of ignition occurs.

FIRE FIGHTING INSTRUCTIONS:

Refer to the emergency personnel. The product is opted in large quantities, use self-contained breathing apparatus and full protective equipment.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

FOR SPILL PROCEDURES:

Clean up spills in a manner that does not disperse dust into the air.

FOR THE PROTECTION OF THE ENVIRONMENT:

Do not breathe dust and eliminate all ignition sources.

PURPOSE PERSONAL PROTECTION:

Avoid breathing dust and wear protective goggles if splash hazard, gloves and other protective clothing to prevent skin contact (apron, boots, etc.) use.

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 7 – HANDLING AND STORAGE

FOR NON-HOUSEHOLD SETTINGS:

When using heat, sparks, flame and smoke, avoid excessive heat and sources of ignition.

SECURE STORAGE CONDITION:

Store in a segregated and approved area, in a closed dry container. Maintain good housekeeping.

FOR RESIDENTIAL SETTING:

Avoid heat, sparks, flame, or smoking. Avoid excessive heat and ignition sources. Store away from strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc.

FOR NON – HOUSEHOLD SETTINGS:

Store away from oxidizers, well ventilated, cool place, keep it in accordance with local requirements.

OTHER PRECAUTIONS:

NONE

SECTION 8 – PHYSICAL AND CHEMICAL PROPERTIES

COLOR, ODOR AND APPEARANCE : White, Odorless, Colorless.

MELTING POINT : N/A
PHYSICAL STATE : Solid
BOILING POINT : N/A
PH : N/A
SOLUBILITY IN WATER : Insoluble
VAPOR DENSITY : N/A
AUTO-IGNITION TEMPERATURE : 800 Degrees
MOISTURE ANALYSIS : 7.7
ASH CONTENT : 4.7
VOLATILES : 6.7
FIXED CARBON : 80.9
SULFUR / SULFUR : 0.09
CALORIES : 7035 - 7622 KCal/kg

PARAMETER	UNIT	AR (As received)	DB (Dried Basis)
TOTAL MOISTURE	%wt	7.7	NIL
/ ASH	%wt	4.7	5.1
VOLATILE MATTER	%wt	6.7	7.3
GROSS CALORIE VALUE	Kcal/kg	7035	7622
FIXED CARBON	%wt	80.9	87.6
TOTAL SULPHUR	%wt	0.09	0.1