



PAN MARINE BLASTING ABRASIVES PTE LTD

Co Reg No 198102190D

3, Tuas South Street 9, Singapore 637101 | Tel (65) 6862 4884 | Fax (65) 6861 1368
Email contactus@pmba.com.sg | www.pmba.com.sg

SAFETY DATA SHEET

Date of Issue: September 2016

SECTION 1 – IDENTIFICATION OF MATERIAL AND SUPPLIER

1.1 Product identifier: **Anthracite for Water Filtration**

1.2 Other means of identifier : **Anthracite Coal**

1.3 Supplier's details:

Pan Marine Blasting Abrasives Pte Ltd

3 Tuas South Street 9, Singapore 637101

Telephone number:

+65 6862 4884

E-mail: contactus@pmba.com.sg

Fax number:

+65 68611368

SECTION 2 – HAZARDS IDENTIFICATION

- | | |
|-----------------------------|---|
| 2.1 Inhalation | Dust may cause upper respiratory tract irritation |
| 2.2 Skin contact/Absorption | None known |
| 2.3 Eye contact | Dust may cause mechanical eye irritation |
| 2.4 Ingestion | None known |
| 2.5 Exposure limits | Not available |

SECTION 3 – FIRST AID MEASURES

3.1 Inhalation

Not usually a hazard under normal use conditions. If breathing problems arise, remove victim to fresh air.



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3.2 Skin contact/Absorption

Removed contaminated clothing and wash affected area with soap and water.

3.3 Eyes Contact

Flush immediately with water for at least 20 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. Seek medical attention if irritation persists.

3.4 Ingestion

Do not induce vomiting. Not toxic by ingestion. If large amounts have been ingested, seek medical attention.

3.5 Additional Information

None

SECTION 4 – FIRE FIGHTING MEASURES

4.1	Conditions of Flammability	Non-combustible under circumstances. Anthracite has a very high ignition temperature.
4.2	Means of Extinction	Use water to extinguish the fire.
4.3	Flash Point	925°C (ignition temperature in air)
4.4	Auto-ignition Temperature	Not applicable
4.5	Upper Flammable Limit	Not applicable
4.6	Lower Flammable Limit	Not applicable
4.7	Hazardous Combustible Products	Carbon dioxide, oxides of Sulfur and nitrogen. In the case of incomplete combustion, Carbon monoxide and acrid smoke.
4.8	Special Fire Fighting Procedures	Wear NIOSH – approved self-contained breathing apparatus and protective clothing.
4.9	Explosion Hazards	Not applicable.



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SECTION 5 – ACCIDENTAL RELEASE MEASURES

- | | | |
|-----|------------------------|--|
| 5.1 | Leak / Spill | Wear appropriate personal protective equipment.
Ventilate area and avoid raising up dust. Sweep up solids and place in appropriate sealed container for disposal.
Prevent material from entering sewers. |
| 5.2 | Deactivating Materials | None |

SECTION 6 – HANDLING AND STORAGE

- | | | |
|-----|----------------------|---|
| 6.1 | Handling Procedures | Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure. |
| 6.2 | Storage Requirements | Store in a cool, dry, well-ventilated place. Keep container tightly closed, and away from heat, ignition sources and incompatible materials. |

SECTION 7 – EXPOSURE CONTROLS / PERSONAL PROTECTION

- | | | |
|-----|-------------|--|
| 7.1 | Eyes | Chemical goggles, full-face shield, or a full-face respirator is to be worn at all times when product is handled. Contact lenses should not be worn, they may contribute to severe eye injury. |
| 7.2 | Respiratory | Respiratory protection is not normally required. If use creates dust formations, then a NIOSH-approved respirator with a dust cartridge is recommended. |
| 7.3 | Gloves | Impervious gloves of chemically resistant material (rubber or PVC) should be worn. Wash contaminated clothing and dry thoroughly before reuse. |
| 7.4 | Clothing | Body suits, aprons, and/or coveralls of chemical resistant material should be worn. Wash contaminated clothing and dry thoroughly before reuse. |



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7.5 Footwear No special footwear is required other than what is mandated at place of work.

ENGINEERING CONTROLS

7.6 Ventilation requirements Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions should be provided. Supply sufficient replacement air to make up for air removed by exhaust systems.

7.7 Others Emergency shower and eyewash should be in close proximity.

SECTION 8 – PHYSICAL AND CHEMICAL PROPERTIES

8.1 Physical State :	Solid
8.2 Odor and Appearance:	Black odourless granules of coarse powder.
8.3 Odor Threshold:	Not applicable
8.4 Specific gravity (Water = 1):	1.45
8.5 Vapor Pressure (mm Hg, 20C):	Not available
8.6 Vapor Density (Air = 1):	Not available
8.7 Evaporation Rate:	~ 0
8.8 Boiling point:	Not available
8.9 Freeze/Melting Point:	Not available
8.10 Ph:	Not available
8.11 Water/Oil Distribution Coefficient	Not available
8.12 Bulk density:	Not available
8.13 % Volatiles by Volume:	Not available
8.14 Solubility in Water:	Insoluble
8.15 Molecular Formula:	C
8.16 Molecular Weight:	12



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SECTION 9 – STABILITY AND REACTIVITY

9.1	Stability:	Product is stable
9.2	Incompatibility:	Oxidizing materials
9.3	Hazardous Products of Decomposition:	Carbon monoxide, carbon dioxide, oxides of sulfur, hydrogen sulfide.
9.4	Polymerization:	Will not occur.

SECTION 10 – TOXICOLOGICAL INFORMATION

10.1	Irritancy:	Inhalation during use may have minor effects (coughing, sneezing).
10.2	Sensitization:	Not available.
10.3	Chronic/Acute Effects:	Excessive, long-term inhalation exposure to coal dust may lead to a condition called workers, Pneumoconiosis (or “Black Lung”). This condition may be characterized by of associated with a cough, shortness of breath reduction in pulmonary function, pulmonary hypertension, bronchitis, emphysema and premature death, it primarily occurs among employees in the coal mining industry where chronic exposures to coal and associated hard rock are common.
10.4	Synergistic Materials:	Not available
10.5	Animal Toxicity Data:	Not available
10.6	Teratogenicity:	Not available
10.7	Mutagenicity:	Not available



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SECTION 11 – ECOLOGICAL INFORMATION

- | | |
|------------------------------|---------------|
| 11.1 Fish Toxicity: | Not available |
| 11.2 Biodegradability: | Not available |
| 11.3 Environmental Effects : | Not available |

SECTION 12 – DISPOSAL CONSIDERATIONS

- 12.1 Waste disposal considerations:

Dispose in accordance with all federal, provincial, and/or local regulations.

SECTION 13 – TRANSPORT INFORMATION

TDG Classification

- | | |
|------------------|---|
| 13.1 Class: | Not regulated. |
| 13.2 Group: | Not regulated. |
| 13.3 PIN Number: | Not regulated. |
| 13.4 Other: | Secure containers (full and/or Empty) with suitable hold down devises during shipment |

SECTION 14 – REGULATORY INFORMATION

- 14.1 None applicable.



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SECTION 15 – OTHER INFORMATION

DISCLAIMER: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we made no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.

Date of issue: September 2016

End of SDS.
