



MATERIAL SAFETY DATA SHEET

▶ **SECTION 01 - CHEMICAL AND PRODUCT AND COMPANY INFORMATION**

Product Identifier	Anthracite Coal
Product Use	Filter media
Supplier Name	Starke Aquacare Technologies 17, Najafgarh Road, New Delhi - 110015 India
Prepared By	Starke Aquacare Technologies / Technical Department Phone: 91-11-47009570
Preparation Date	June 14, 2016

▶ **SECTION 02 - COMPOSITION / INFORMATION ON INGREDIENTS**

Hazardous Ingredients	Anthracite Coal 100%
CAS Number	Anthracite Coal 8029-10-5
Synonym (s)	Coal

▶ **SECTION 03 - HAZARD IDENTIFICATION**

Inhalation	Dust may cause upper respiratory tract irritation.
Skin Contact / Absorption	Not anticipated to cause a significant hazard.
Eye Contact	Dust may cause mechanical eye irritation.
Ingestion	Not anticipated to cause a significant hazard.
Exposure Limits	OGHA-PHL: 2.4ppm ACGIH-TLV: 2.0ppm Coal consists of a complex mixture of organic compounds. It is recommended that the air be analyzed for crystalline silica where inhalation exposures to this product may occur. Should the collected dust contain greater 5% crystalline silica, it may be appropriate to use the applicable exposure limit for silica.

▶ **SECTION 04 - FIRST AID MEASURES**

Inhalation	Not usually a hazard under normal use conditions. If breathing problems arise, remove victim to fresh air.
Skin Contact / Absorption	Remove contaminated clothing and wash affected area with soap and water.



Eye 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.
Ingestion	Do not induce vomiting. Not toxic by ingestion. If large amounts have been ingested, seek medical attention.
Additional Information	None

▶ SECTION 05 - FIRE

Conditions of Flammability	Non-combustible under normal circumstances. Anthracite has a very high ignition temperature. Moderate hazard in the form of dust if exposed to flame or heat.
Means of Extinction	Use water, dry chemical or carbon dioxide to extinguish the fire.
Flash Point	Not applicable
Auto-ignition Temperature	Not applicable
Upper Flammable Limit	Not applicable
Lower Flammable Limit	Not applicable
Hazardous Combustible Products	Carbon dioxide, oxides of sulphur and nitrogen.
Special Fire Fighting Procedures	Wear NIOSH-approved self-contained breathing apparatus and protective clothing.
Explosion Hazards	Slight hazard in the form of dust if exposed to flame or heat.

SECTION 06 - ACCIDENTAL RELEASE MEASURES

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.
Deactivating Materials	None

▶ SECTION 07 - HANDLING AND STORAGE

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.
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Storage Requirements

Store in a cool, dry, well-ventilated place. Keep container tightly closed, and away from heat, ignition sources and incompatible materials.

▶ **SECTION 08 - PERSONAL PROTECTION AND EXPOSURE CONTROLS**

Protective Equipment

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.

Respiratory

Respiratory protection is not normally required. If use creates dust formations, then a NIOSH-approved respirator with a dust cartridge is recommended.

Gloves

Gloves should be worn if dust levels are excessive. Wash contaminated clothing and dry thoroughly before reuse.

Clothing

Coveralls or long sleeved clothing should be worn if dust levels are excessive. Wash contaminated clothing and dry thoroughly before reuse.

Footwear

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

Engineering Controls

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.

Other

Emergency shower and eyewash should be in close proximity.

▶ **SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES**

Physical State

Solid

Odor and Appearance

Black odourless lumps, granules or coarse powder

Odor Threshold

Not applicable

Specific Gravity (Water=1)

1.60-1.80

Vapor Pressure (mm Hg, 20C)

Not available

Vapor Density (Air=1)

Not available

Evaporation Rate	Not available
Boiling Point	Not available
Freeze/Melting Point	Not available
pH	Not available
Water/Oil Distribution Coefficient	Not available
Bulk Density	Not available
% Volatiles by Volume	Not available
Solubility in Water	Insoluble
Molecular Formula	C
Molecular Weight	12

▶ SECTION 10 - STABILITY AND REACTIVITY

Stability	Product is stable
Incompatibility	Oxidizing materials
Hazardous Products of Decomposition	Carbon monoxide, carbon dioxide, oxides of sulphur, hydrogen sulfide.
Polymerization	Will not occur

▶ SECTION 11 - TOXICOLOGICAL INFORMATION

Irritancy	Inhalation during use may have minor effects (coughing, sneezing).
Sensitization	Not available
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 or 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.
Synergistic Materials	Not available
Animal Toxicity Data	Not available
Carcinogenicity	Not available
Reproductive Toxicity	Not available
Teratogenicity	Not available
Mutagenicity	Not available



▶ **SECTION 12 - ECOLOGICAL INFORMATION**

Fish Toxicity	No unusual hazards to fish, plants or birds.
Biodegradability	Not available
Environmental Effects	Not available

▶ **SECTION 13 - DISPOSAL CONSIDERATION**

Waste Disposal	Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.
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▶ **SECTION 14 - TRANSPORTATION INFORMATION**

TDG Classification

Class	Not regulated
Group	Not regulated
PIN Number	Not regulated
Other	Secure containers (full and/or empty) with suitable hold down devices during shipment.

▶ **SECTION 15 - REGULATORY INFORMATION**

WHMIS Classification	Not a controlled product
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NOTE: THE PRODUCT LISTED ON THIS MSDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE ASIAN CONTROLLED PRODUCTS REGULATIONS. THIS MSDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

▶ **SECTION 16 - OTHER INFORMATION**

Note: 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



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