



MATERIAL SAFETY DATA SHEET

▶ 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Starke Aquacare Technologies
17 Najafgarh Road
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New Delhi
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Tel: +91 11 47009571
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Product Name: Filter Sand, Filter Gravel
All filter material is graded to tight tolerances.
Standard grades include but are not limited to the following sizes.
Non Standard Sizes are made to specifications supplied by customer.

Standard Products and Specifications

Product	7M	7C	6.5	6	5	4	3	2
Effective Size/Range	0.4-0.55	0.5-0.71	0.8-1.8	1.5-3.0	3.0-6.0	6.0-12.0	12.0-25.0	20.0-40.0
Uniformity Coefficient / Nominal	<1.5	<1.5	Nom +/- 8%	Nom +/- 8%	Nom +/- 8%	Nom +/- 8%	Nom +/- 8%	Nom +/- 8%

Use: Filter Media is produced to rigorous specifications, to allow certain components to be trapped, allowing liquids etc to flow on.

UN Number: None allocated

Proper Shipping Name: None allocated

Dangerous Goods Class: None allocated

Packing Group: None allocated

Hazchem Code: None allocated

Poison Schedule: None allocated



▶ 2. COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS	Proportion
Crystalline Silica (Quartz)	14808-60-7	~94%
Chart	not required	1-5%
Other non-hazardous	not required	1-5%

▶ 3. HAZARD IDENTIFICATION

Hazardous according to the criteria of Worksafe India. Product may contain crystalline silicate.

HEALTH EFFECTS

Swallowed	Not a likely source of exposure. May cause irritation to mouth, oesophagus and stomach.
Eye	May cause mechanical irritation in contact with the eyes, which can result in redness and itching. Not anticipated to cause permanent eye injury.
Skin	May cause mechanical irritation in contact with the skin
Acute - Inhaled	Inhalation may cause irritation to the mucous membrane and upper airways.
Chronic-Inhaled	Repeated inhalation of dust may result in excessive mucus and coughing. Because product may contain crystalline silica, repeated inhalation of high concentrations of respirable dust may cause scarring of the lung (silicosis), and chronic bronchitis, and may increase the risk of scleroderma (thickening of the connective tissue) and kidney disease.

▶ 4. FIRST AID MEASURES

Swallowed	Drink plenty of water and contact a Doctor if irritation develops. DO NOT induce vomiting.
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Eye	If in eyes, flush with plenty of water for at least 15 minutes, ensuring eyelids are held open and see a Doctor if irritation continues.
Skin	If skin contact occurs, remove contaminated clothing and wash skin thoroughly with soap and water.
Inhaled	Move to fresh air. Monitor for respiratory distress. Seek medical attention if irritation occurs.
First Aid Facilities	Eye wash fountain shall be available.
Advice to Doctor	Treat symptomatically.

▶ 5. FIRE-FIGHTING MEASURES

Fire/Explosion Hazard	Non- flammable does not support combustion of other Materials, and will not cause dust explosions.
Extinguishing media	Not Applicable
Special fire fighting procedure	Not Applicable
Flammability	Non flammable

▶ 6. ACCIDENTAL RELEASE MEASURES

EMERGENCY ACTION	None available
SPILL OR LEAK PROCEDURE	Not Applicable
SPILLS	Prevent entering sewer, storm water drains or waterways. Avoid creating dust wet media or use vacuum to remove spill.

▶ 7. HANDLING AND STORAGE

Storage	No special storage precautions required.
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Transport Not classified as a Dangerous good, according to the Indian Code for the Transport of Dangerous Goods by Road and Rail (6th Edition).

Proper Shipping Name None allocated

► 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

Crystalline Silica TWA 0.1 mg/m³ respirable dust

Total Respirable Dust TWA 10 mg/m³ (TWA maximum in a 8 hour period)

Do not store or consume food, drink or tobacco in an area where they may become contaminated with this material. Wash hand thoroughly before eating, smoking, applying cosmetics etc. Use safe hygiene practices. Thoroughly launder work clothes before reuse.

Engineering Controls

Local ventilation not normally necessary but should be considered if used in poorly ventilation or very confined space (Use a Air Purifying Respirator or wet sand to aid in the prevention of inhalation)

Personal Protection Equipment

CLOTHING

PVC or rubber apron, coveralls, safety shoes/boots.

GLOVES

PVC or rubber.

EYES

Safety glasses to protect eyes.

RESPIRATORY PROTECTION

Select and use respirators in accordance with AIS/IZS 1715/1716. If used in poorly ventilated or very confined spaces, a standard disposable dust mask fitted with a type P1 filter should be used that complies with AIS1716 Respiratory Devices and used in accordance with AIS1715 which describes use and maintenance. Where dust is generated the use of an Air Purifying Respirator with a class P1 filter



▶ 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Fine to coarse grains varying in colour from brown/grey to light grey
Melting Point	> 1000 Degrees Celsius
Vapour Pressure	Not applicable
Specific Gravity	Approximately 2.6
Flash point	Not applicable
Flammable Limit LEL	Not applicable
Flammable Limit UEL	Not applicable
Solubility in Water	Insoluble

▶ 10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions of use.
Hazardous Decomposition Products	None allocated.
Hazardous Polymerization	Will not occur.
Incompatibilities	None allocated.
Conditions To Avoid	None allocated.

▶ 11. TOXICOLOGICAL INFORMATION

No toxicological information is available for this product.

▶ 12. ECOLOGICAL INFORMATION

No environmental impact information is available for this product.
Avoid contaminating waterways, drains or sewers.

▶ 13. DISPOSAL CONSIDERATIONS

Refer to appropriate authority in your State. Dispose of material through a licensed waste contractor. Normally, suitable for disposal by approved waste disposal agent.

▶ 14. TRANSPORT INFORMATION

UN Number	None allocated
Proper Shipping Name	None allocated
Dangerous Goods Class	None allocated

Packing Group None allocated
Hazchem Code None allocated

▶ **15. REGULATORY INFORMATION**

Poison Schedule This material is not poisonous.
Risk Phrases None allocated
Safety Phrases None allocated
Hazard Category hazardous to health (Irritant)

At time of revision Quartz (crystalline silica) was under review for the Hazardous Substances Information System.

▶ **16. OTHER INFORMATION**

PRINCIPAL REFERENCES:

Material Safety Data Sheet: Starke Aquacare Technologies

Issue date: 22/11/16

Issued by: Mahinder Kumar – Technical Manager

Supersedes: All previous Material Safety Data Sheets Issued

The customer is advised to consult the product Technical Data Sheets for further information including advice on suitable equipment.

Information used in the compilation of this MSDS obtained from investigations conducted at outside laboratories.

Issue date: 22/11/16

Supersedes: All previous Material Safety Data Sheets Issued

REASONS FOR UPDATE:

1. Three (3) year Company revision of MSDS.

MSDS's are updated frequently. Please ensure that you have a current copy.

Disclaimer

This Material Safety Data Sheet should be used in conjunction with the Technical Data Sheet. It does not replace them. The information given is based on our knowledge of the health and safety data of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any purpose other than that for which it was intended. If clarification or further information is needed to enable appropriate risk assessment, the user should contact Starke Aquacare Technologies . our responsibility for products, sold is subject to our standard terms and conditions sent to customers. No liability whatsoever can be accepted with regard to the handling, processing or use of the product concerned which, in all cases, shall be in accordance with the appropriate regulations and / or legislation.