

WATERCO EUROPE LTD



MATERIAL SAFETY DATA SHEET

*Processed Container Glass as a
Water Filter Media: Grade 1*

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Waterco Europe Ltd.

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Product Introduction:

Waterco Filter Media is a quality assured, secondary material produced specifically for the use in treatment of potable water, municipal wastewater, industrial wastewater, filtration of swimming pool water and various aquaculture and fish farming applications.

Processed from post consumer container glass, Waterco manufacture the product in accordance with PAS 102: *Specification for processed glass for selected secondary end markets.*

The product is completely inert, free from organic contaminants and is supplied ready for use.

Physical Data:

Shape: Particle shape ratio > 5:1, 0%₁

Colour: *Green Glass (no more than 5% other)*

Particle Size Distribution: *1.0mm—0.5mm*

*95.5% passing 1.0mm; 0.7% passing 0.5mm*₂

Moisture Content: < *0.02%*₃

Chemical Composition:

Silicon: 31.6%

Sodium: 11.1%

Calcium: 6.4%

Aluminium: 0.82%

Potassium: 0.574%

Magnesium: 0.496%

Potential Harm to Health:

This material has been classified as non-hazardous, and contains no substances as “hazardous / dangerous” as contained within Directive 67/548/EEC.

Directive EH40/2005 & 2007 stipulates that there are no defined parameters for glass dusts because of its inert nature and therefore does not have a WEL and is classed as general dust.

Eyes and the throat can become irritated when exposed to significantly high concentration levels.

There are no significant immediate health concerns, physical or environmental hazards.

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First Aid Measures:

INHALATION: Direct exposure could cause irritation to the mucus membranes. If irritation continues, seek further medical attention

INGESTION: Non toxic. If ingested, please wash out with cold water. Swallowing large quantities can lead to discomfort. If this occurs, seek immediate medical attention

SKIN: If an irritation occurs after contact, ensure that all affected areas are washed continuously with hot water & soap

EYES: Bathe the eye(s) in a saline / water based solution for a minimum period of fifteen (15) minutes. If the irritation persists, seek medical attention

REPORTING SYMPTOMS: Outline the problem to your nominated GP and advise them of your exact symptoms, which then should be treated accordingly

Accidental Release Measures:

PERSONAL PROTECTION: Employees are required to wear appropriate RPE/PPE

EMISSIONS TO AIR: There is a small amount of emissions to air

CLEANING: Sweep area with a minimum of dusting

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Fire Fighting Measures:

SUBSTANCE FLAMABILITY: The product is a non-flammable substance. The material is a fully oxidised stable silicate and is unable to produce dust explosions

FIRE FIGHTING CAPABILITY: Suitable extinguishing media for the surrounding fire should be used

Handling & Storage:

HANDLING: Avoid breathing dust directly. Avoid spillage which can lead to potential slips. Adopt good cleaning and housekeeping practices

STORAGE: Store in a dry, cool place

Stability & Reactivity: not applicable

Environment & Ecological Information: not applicable

Health & Safety Information: not applicable

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Exposure Controls:

DUST EXPOSURE GUIDANCE:	A. Total Dust < 10 mg/m³ based on an directly exposed 8hr shift. B. Respirable Dust < 4mg/m³ based on a directly exposed 8hr shift.
ENGINEERING CONTROLS:	Use adequate ventilation if dusty conditions prevail when handling product. For general storage and ordinary handling, general ventilation will suffice
RESPIRATORY PROTECTION:	Always utilise HSE approved and CE kite marked equipment
SKIN PROTECTION:	Protective Garments must be used to limit the exposure to skin
EYE PROTECTION:	Use Safety Goggles

Toxicological Information:

IMMEDIATE (ACUTE) EFFECTS:	Not applicable
DELAYED (SUBCHRONIC & CHRONIC EFFECTS):	Not applicable
OTHER RELEVANT DATA/INFORMATION:	Exposure to dust in excess of the daily limit of 10 mg/m³ will expose employees to unacceptable and avoidable harm to health. Where you cannot eliminate the risk, consideration must be given to reduce the risk of harm to the lowest level as is reasonably practicable

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Physical & Chemical Properties:

APPEARANCE:

Physical State: **Granulated particulates of varying sizes**
Colour: **Green**
Odour: **None**

SAFETY APPLICABLE DATA:

Melting Point: **1,500 degrees Celsius (approx)**
Lower explosion limit: **not applicable**
Upper explosion limit: **not applicable**
Bulk density: **2.56**
Hardness: **6-7 (Moh's scale)**
Solubility in water **Negligible**

Transport Considerations:

LAND TRANSPORT:

ADR, GGVS, RID, GGVE: **no restrictions**

IDENTIFICATION OF THE PRODUCT:

Danger Number: **not applicable**
River/Internal Waterways: **not regulated (ADNR)**
Sea Transport: **not regulated (IMDG, GGV EmS, MFAG)**
Air Transport: **not regulated (ICAO, IATA-DGR)**
Other Information: **may be sent by standard commercial mail / courier services**

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Regulatory Considerations:

DANGER SYMBOLS: **not applicable**

NATIONAL REGULATIONS: **not applicable**

Disposal Considerations:

The material supplied can be sent to land fill under the current EU/UK regional & national waste disposal regulations. Where possible, recycling of the material would be far more preferable to that of waste disposal.

Declaration:

We the company stipulate that the information contained therein is to the best of our knowledge accurate. However we can legislate for scenarios out of our control, i.e. the specific conditions and circumstances in which the product may be used, and therefore cannot accept liability for any loss or damage, regardless of circumstance, which directly or indirectly arises from the use of such information

Relevant BS:ENs and other Standards

1. BW:P.18.96R - Standard for the specification, approval and testing of granular filtering materials. UK: British Water, 1996
2. BS:EN 933-1 - Tests for geometrical properties of aggregates - Part 1: Determination of particle size distribution - sieving method
3. BS 812-109 - Testing aggregates - Methods for determination of moisture content

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