



Material Safety Data Sheet

Section 1 - Product Identification and Use

Product Identifier: **FILTER GRAVEL**

Description: Crushed stone or natural pebble-shaped stone in various sizes

Product Use: Water filtration & treatment

Manufacturer's Name: Target Products Ltd
1080 Bradner Road
Abbotsford, BC V4X 1H8
Emergency Phone: [604]856-7976

Supplier's Name: AWI (Anthratech Western Inc.)
4450 – 46 Avenue, SE
Calgary, Alberta T2B 3N7
Emergency Phone: [403] 255-7377

* Filter Gravel is manufactured by Target Products Ltd and is distributed by AWI.

Section 2 - Hazardous Ingredients

Crystalline Silica, quartz %(w/w): 60 LC50: >2mg/L (rat/1 hour)
Respirable Silica %(w/w): <0.005 LD50: >31600mg/kg(oral/rat)
Exposure Limits/ACGIH: TLV-TQA 0.05mg/m3 for respirable crystalline silica dust

NONE: Filter gravel is not classified as a hazardous material by the criteria of the O.S.H.A. Hazard Communication Standards

* Exposure limits may vary from time one jurisdiction to another. Check with local regulatory agency for the exposure limits in your area.

Section 3 - Physical Data

Boiling Point:	2230 °C	Fusion Range:	N/A
Melting Point:	2230 °C	Vapour Pressure:	N/A
Physical State:	Solid	Percent Volatile:	None
Specific Gravity:	2.65 (Approximate)	Solubility In Water:	N/A
pH:	6-7	Appearance and Odour:	Grey to yellow crystals with no odour.

Section 4 - Fire and Explosion Data

This material is not flammable.

Section 5 - Reactivity Data

Stability:	Filter gravel is stable under normal conditions
Incompatibility:	Contact with powerful oxidizing agents such as fluorine, chlorine trifluoride and oxygen difluoride may cause exothermic reactions resulting in fires.
Reactivity:	Silica will dissolve in hydrofluoric acid and produce a corrosive gas, silica tetrafluoride.

Section 6 - Toxicological Properties

Routes of Entry:

Skin Absorption:	No	Eye Contact:	Yes
Skin Contact:	Yes	Ingestion:	Yes
Inhalation:	Yes		

Sand (silicon dioxide) may contain crystalline quartz, which has been classified as a carcinogen by The International Agency for Research Cancer. It has been concluded that crystalline silica in the form of quartz or cristobalite from occupational sources should be classified as carcinogenic to humans. The major route of entry is inhalation, but the sand in this product is such that dusting of the silica is minimal. Respirable silica dust is less than 0.005%.

Acute Health Effects:

Inhalation:	Inhalation of sand particles may cause irritation to the upper respiratory tract. Exposure may cause soar throat, coughing, sneezing and the production of phlegm in the throat. Nosebleeds may occur in cases of those with sensitive nose membranes due to abrasion of sensitive tissue.
Skin Contact:	Sand is mildly abrasive to skin, but may aggravate tender skin causing rash, cuts or soars.
Eye Contact:	Contact with the eye will cause tearing and irritation from the foreign object in the eye. Rubbing of the eye may cause abrasion of the cornea.
Ingestion:	No evidence of ill effects from ingestion of sand.
Chronic Health Effects:	Excessive inhalation of crystalline silica dust may result in respiratory disease, including silicosis, scarring of lung tissue, cancer, pneumoconiosis, or pulmonary fibrosis. Prolonged contact with sand by sensitive skin may result in skin redness, rash or soars.

Medical Conditions Aggravated by Exposure:

Respiratory problems may be aggravated by pre-existing lung disease such as bronchitis, emphysema, or chronic obstructive pulmonary disease.

Section 7 - Preventative Measures

Engineering Controls:	Ensure that sufficient ventilation is available to keep dust below TLV. If possible, mix this product outdoors. Airborne concentrations should be low, however, provide adequate ventilation to ensure airborne concentrations are kept below applicable regulated exposure limits.
Respiratory Protection:	Respirators must be NIOSH approved and properly selected, maintained and used when working with this product. Respirator with a minimum N95 rating.
Skin Protection:	Wear clothing to prevent contact with skin.
Eye and Face Protection:	Wear safety glasses to protect eyes.
Handling and Storage:	Handle bags in a manner that will ensure minimal generation of dusts. Do not breathe dust, which may generate accidentally. Follow safe work procedures.

Section 8 - First Aid Measures

Inhalation:	If irritation causes coughing or phlem, remove to fresh air. Call for medical assistance if coughing doesn't subside.
Skin Contact:	Wash affected area thoroughly. If irritation persists, seek medical attention.
Eye Contact:	Immediately and thoroughly flush eyes with water until the foreign object is flushed out of the eye. If irritation, pain, swelling, or lacrimation exists, get medical attention as soon as possible.
Ingestion:	Ingestion of particulate is not considered to be injurious to health. Give fluids to aid in the passing of the product through the digestive system. Do not give anything by mouth to a convulsing or unconscious person. If patient shows discomfort, get immediate medical attention.

Section 9 - Preparation & Date of MSDS

Prepared by: Craig Morris (Safety Officer)
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Telephone Number: [403] 255-7377
Date Prepared: January 14, 2013

The information contained herein is accurate to the best of our knowledge. However, data, safety standards and government regulations are subject to change, and conditions of handling, use or misuse of this product are beyond our control. Users should satisfy themselves that they are aware of all of the current data relevant to their particular use.