BGC FIBRE CEMENT SHEETS

1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<table>
<thead>
<tr>
<th>PRODUCT NAME</th>
<th>OTHER NAMES</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>UN NUMBER</th>
<th>DANGEROUS GOODS CLASS &amp; SUBSIDARY RISK</th>
<th>HAZCHEM CODE</th>
<th>POISONS SCHEDULE NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>None Allocated</td>
<td>None Allocated</td>
<td>None Allocated</td>
<td></td>
</tr>
</tbody>
</table>

Fibre cement sheets for use on internal/external wall linings and soffits and internal/external flooring. Refer to product manual for installation.

COMPANY: BGC (Australia) Pty Ltd T/A BGC Fibre Cement
ADDRESS: 77 Cryers Rd, East Tamaki, Auckland 2013
WEBSITE: www.bgcinnovadesign.co.nz
TELEPHONE: 09 273 1457
FAX: 09 273 1461
EMERGENCY PHONE NUMBER: 111 Fire Brigade, Police and Ambulance
NATIONAL POISONS CENTRE: 0800 764 766

2 - HAZARDS IDENTIFICATION

The potential health hazards are related to dust generated from these materials during the use of power tools and sanding.

The intact BGC Fibre Cement products do not give off dust or fume during installation or when installed. However, cutting, breaking, drilling or sawing the boards may generate dust. Inhaling dust liberated from BGC Fibre Cement may aggravate pre-existing respiratory conditions and may cause cancer.

Smoking and inhalation of airborne particulates from other sources may increase the risk of lung disease.

Work areas and storage areas should be deemed smoke-free zones.

3 - COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS NUMBER</th>
<th>PROPORTION</th>
<th>EXPOSURE LIMITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium silicate hydrate</td>
<td>66997-15-1</td>
<td>40%-60%</td>
<td>10.0 mg/m³ measured as inspirable dust</td>
</tr>
<tr>
<td>Crystalline silica</td>
<td>14808-60-7</td>
<td>20%-60%</td>
<td>0.1 mg/m³ measured as inspirable dust</td>
</tr>
<tr>
<td>Paper pulp (cellulose)</td>
<td>9004-34-6</td>
<td>&lt; 10%</td>
<td>10 mg/m³ measured as inspirable dust</td>
</tr>
<tr>
<td>Calcium silicate aluminate</td>
<td>21645-51-2</td>
<td>&lt; 5%</td>
<td>10 mg/m³ measured as inspirable dust</td>
</tr>
<tr>
<td>Water</td>
<td></td>
<td>&lt; 15%</td>
<td></td>
</tr>
<tr>
<td>Other non-hazardous ingredients (pigments, sealers, coatings)</td>
<td></td>
<td>&lt; 5%</td>
<td></td>
</tr>
</tbody>
</table>
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4 - FIRST AID MEASURES

**SWALLOWED**
Give copious amounts of water to drink.

**EYE**
Flush thoroughly with flowing water for at least ten minutes. If symptoms persist, seek medical attention.

**SKIN**
Wash thoroughly with soap and water.

**INHALED**
Remove to fresh air.

**ADVICE TO DOCTOR**
Treat symptomatically.

5 - FIRE FIGHTING MEASURES

**FIRE AND EXPLOSION HAZARDS**
BGC Fibre Cement products are non-flammable and non-combustible.

**SUITABLE EXTINGUISHING SUBSTANCES**
Not applicable.

**UNSUITABLE EXTINGUISHING SUBSTANCES**
Not applicable.

**PRODUCT OF COMBUSTION**
BGC Fibre Cement products are non-combustible and non-flammable.

6 - ACCIDENTAL RELEASE MEASURES

**SPILLS AND DISPOSAL**
Use wet sweeping and/or vacuuming to clean up dust and waste. Bagged waste should be placed in containers and disposed of with other construction waste in accordance with local authority guidelines.

7 - STORAGE AND HANDLING

**STORAGE**
Fibre cement sheets should be stored flat and level in a covered dry area.

**HANDLING**
Crystalline silica dust may be generated during processing and handling. Use appropriate personal protective equipment to reduce exposure to respirable silica dust. Keep dust generation to a minimum using proper tools.

Wear protective equipment to prevent skin and eye contamination. Manual handling should be in accordance with Manual Handling Regulations and Codes.

8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

**EXPOSURE STANDARDS**
BGC Fibre Cement has adopted the following maximum exposure limits, corresponding to the limits set out by the CoA, NOHSC; Exposure Standards for Atmospheric Contaminants in the Occupational Environment:
- Calcium silica: 10 mg/m³ time-weighted average (TWA) as inspirable dust
- Cellulose: 10 mg/ m³ TWA as respirable dust
- Crystalline silica (quartz): 0.1 mg/ m³ TWA as respirable dust
- Aluminium Trihydroxide: 10 mg/m³ time-weighted average as inspirable dust

BGC Fibre Cement recommends keeping exposures to dust as low as practicable and work in a well-ventilated space.

**ENGINEERING CONTROLS**
No dust is generated, unless the fibre cement is cut.
Keep exposures to dust as low as practicable, preferably below 5 mg/m³ TWA (time-weighted average) of inspirable dust, to prevent respiratory discomfort. Work in the open air or near external openings in the building, for adequate ventilation. Where dust is generated, in confined spaces, local mechanical ventilation should be used, to direct the dust away from the work areas. Personal protective equipment should be used in confined spaces and where dust levels exceed the maximum levels.
ENGINEERING CONTROLS
Use safe work practices to minimize dust release and exposure. Clean work areas regularly by wet sweeping or vacuuming with a HEPA filtered vacuum.

VENTILATION
Where safe work practices, adequate engineering and material handling controls are in place, ventilation is not normally required. Use local mechanical ventilation and/or dust extraction in confined areas and where dust could escape into the working environment.

Tools and Equipment

REPAIR AND MAINTENANCE
Vacuum and/or wipe down all tools and equipment prior to maintenance and repair work. Avoid compressed air cleaning where possible, and wear eye and respiratory protection, and clothing as listed below.

SKIN PROTECTION
Avoid direct skin contact with fibre cement products. Wear loose appropriate clothing, such as long sleeved shirts and long trousers, head protection and standard duty leather or equivalent gloves, which comply with Australian Standard AS 2161: Industrial Safety Gloves and Mittens. Wash work clothes regularly and do not shake out dust.

EYE PROTECTION
Wear dust resistant non-fogging safety goggles or glasses, which comply with Australian and New Zealand Standard AS/NZS 1336: Recommended Practices for Eye Protection.

RESPIRATORY PROTECTION
Where safe work practices, adequate engineering and material handling controls are in place and used none may be required. However, BGC Fibre Cement suggests that L or M particulate respirator (dust mask), which comply with Australian and New Zealand Standard AS/NZS 1715: Selection, Use and Maintenance of Respiratory Protective Devices, and Australian and New Zealand Standard AS/NZS 1716: Respiratory Protective Devices when Exposed to Dust, be used at all times.

PERSONAL HYGIENE
Do not smoke whilst handling and working with fibre cement. Wash dust from skin with mild soap and water after working with fibre cement.

FLAMMABILITY
Fibre cement products are non-combustible and non-flammable.

9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>FACTORY APPLIED BLUE TINT ON FACE OF DURATEX™ AND A WHITE TINT TO THE FACE OF 4.5, 6.0, 9.0 AND 12MM COMPRESSED</th>
<th>BOILING POINT (°C)</th>
<th>SPECIFIC GRAVITY (H₂O = 1)</th>
<th>FLAMMABILITY LIMITS</th>
<th>REACTIVITY (I.E. WITH WATER OR AIR)</th>
<th>ODOR THRESHOLD</th>
<th>AUTO-IGNITION TEMPERATURE (°C)</th>
<th>LOWER EXPLOSION LIMIT</th>
<th>SELF ACCELERATING DECOMPOSITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPEARANCE</td>
<td>Factory applied blue tint on face of the Duratex™, and a white tint to the face of 4.5, 6.0, 9.0 and 12mm Compressed</td>
<td>Not Applicable</td>
<td>Not Relevant</td>
<td>Not Flammable</td>
<td>Not Reactive</td>
<td>Slight cement odour</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>VAPOUR PRESSURE</td>
<td>Not Applicable</td>
<td>SPECIFIC GRAVITY</td>
<td>Not Relevant</td>
<td>FLAMMABILITY LIMITS</td>
<td>REACTIVITY (I.E. WITH WATER OR AIR)</td>
<td>Slight cement odour</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>FLASH POINT</td>
<td>Not Applicable</td>
<td>FLAMMABILITY LIMITS</td>
<td>Not Flammable</td>
<td>Not Reactive</td>
<td>Not Reactive</td>
<td>Slight cement odour</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER</td>
<td>Not Relevant</td>
<td>REACTIVITY (I.E. WITH WATER OR AIR)</td>
<td>Not Reactive</td>
<td>Not Reactive</td>
<td>Not Reactive</td>
<td>Slight cement odour</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>AUTO-IGNITION TEMPERATURE (°C)</td>
<td>-</td>
<td>ODOR THRESHOLD</td>
<td>Slight cement odour</td>
<td>UPPER EXPLOSION LIMIT</td>
<td>-</td>
<td>Slight cement odour</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>LOWER EXPLOSION LIMIT</td>
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<tr>
<td>SELF ACCELERATING DECOMPOSITION</td>
<td>-</td>
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</table>

10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY
Stable and non-reactive.

HAZARDOUS REACTIONS
None

CONDITIONS TO AVOID
Dust generation during handling, processing and inhalation.

INCOMPATIBLE MATERIALS
None

HAZARDOUS DECOMPOSITION PRODUCTS
None
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11 - TOXICOLOGICAL INFORMATION

Health Effects: Acute (short term)

SWALLOWED  Unlikely to occur, however may result in symptoms of acute indigestion.
EYES        Excessive dust may cause eye irritation.
SKIN        The dust, particularly in association with heat and sweat, can cause irritation, but it is not absorbed through skin.
INHALED    Inhaled dust may cause nasal, throat and lung irritation, symptomatic through excess mucus and coughing.

Health Effects: Chronic (long term)

INHALED    If respirable crystalline silica levels are not controlled, repeated exposure to excessive dusts of fibre cement products could result in chronic lung disease Silicosis. However, if the practices noted in this SDS are followed during cutting and sanding, exposure to airborne dusts should be within recommended occupational exposure standards and no long-term effects are expected.

12 - ECOLOGICAL INFORMATION

ECO-TOXICITY  BGC Fibre Cement products are not toxic to aquatic and terrestrial organisms.
PERSISTENCE AND DEGRADABILITY  No data
BIOACCUMULATIVE DATA  No data
MOBILITY IN SOIL  A low mobility would be expected in a landfill situation.

13 - DISPOSAL CONSIDERATION

DISPOSAL  BGC Fibre Cement products must be disposed into a landfill site in accordance with local authority guidelines. Measures should be taken to prevent dust generation during disposal, and exposure and personal precautions should be observed (see above).

14 - TRANSPORT INFORMATION

TRANSPORT  No special transport requirements are necessary.

15 - REGULATORY INFORMATION

Not scheduled.

16 - OTHER INFORMATION

For further information on this product, please contact:
BGC (Australia) Pty Ltd (ABN 6200 5736 005 008) T/A BGC Fibre Cement
121 Bannister Road, Canning Vale WA 6155
Phone: +61 8 9374 2900
Fax: +61 8 9374 2901
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ADDITIONAL INFORMATION

Australian Standards References
AS/NZ 1336       Recommend Practices for Occupational Eye Protection
AS/NZ 1715       Selection, Use and Maintenance of Respiratory Protective Devices
AS/NZ 1716       Respiratory Protection Devices
AS 2161          Industrial Safety Gloves and Mittens (excluding electrical and medical gloves)

Other References
MODEL CODE OF PRACTICE  Preparation of Safety

AUTHORISATION

REASON FOR ISSUE       Update to GHS format
DATE OF ISSUE           24 October 2019

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