ABN: 79 090 620 410
Unit 2/1075 Beaudesert Road
ARCHERFIELD QLD 4108
Phone: (07) 3274 6911
Fax: (07) 3274 6414
www.shieldcoat.com.au

MATERIAL SAFETY DATA SHEET INFORMATION

For further information: Please refer to the Material Safety Data Sheet following

Issue: September 07

PRODUCT: Cementshield

Other Names: N/A

Uses: Construction materials

UN No.:	N/A
Dangerous Goods Class:	N/A
Subsidiary Risk:	None
Packing Group:	N/A
Hazchem Code:	N/A
Poisons Schedule:	N/A

Hazardous Nature:	This product is classified as **hazardous** according to NOHSC.
Exposure Standards:	Portland Cement Crystalline Sillica TWA: 10 mg/m^3, .2 mg/m^3 Respirable Dust. STEL: .7 mg/m^3

Physical Characteristics (Typical)	**Section 9 of the MSDS**
Appearance	Off White cement coloured free flowing powder
Boiling Point/Range (°C):	Not relevant
Flash Point (°C):	Not relevant
Specific Gravity/Density:	N/A
pH:	N/A
Chemical Stability:	This product is stable at room temperature and pressure.
Reactivity:	Sets hard with water.

Product Ingredients		**Section 3 of the MSDS**
Ingredient	CAS Number	Proportion
Portland Cement Component	65997-15-1	20-30%
Silica Sand	14808-60-7	70-80%
For further ingredients information, please refer to the full MSDS		

Risk Phrases	**Section 2 of the MSDS**
Harmful by inhalation and in contact with skin	
Irriating to skin	

DEFINITIONS

Dangerous Goods	Products that are regulated for transport by Road and Rail under the national guide are Dangerous Goods. Products can be classed as Dangerous Goods if they have a flash point below 60.5°C, a pH below 3 or above 11, are explosives or toxic. These goods will be allocated a UN No., Packing Group, Hazchem Code, and possibly a subsidiary risk.
Hazardous Substances	Hazardous Substances are those products that are intrinsically hazardous by nature, rather than by misuse. These include mutagens, teratogens, carcinogens, products that are toxic (but not sufficiently toxic to be classed as Dangerous Goods or carry a subsidiary risk), and products that pose environmental risks.
Poisons	Poisons are products that are regulated by the dose or exposure, often having physical and chemical effects at certain concentrations particular to the nature of the product. For example, in small doses, some products are harmless, but with increased concentration or exposure these products can be extremely harmful. The classification indicates First Aid, etc.

SUMMARY INFORMATION ONLY

1. IDENTIFICATION

Product Name: Cementshield
Other Names: N/A
Chemical Family: Cementious powder
Molecular Formula: Not Applicable
Recommended Use: Construction materials
Supplier: Shieldcoat Pty Ltd
ABN: 79 090 620 410
Address: 2/1075 Beaudesert Road, Archerfield Qld 4108
Telephone: +61 7 3274 6911
Fax: +61 7 3274 6414
Emergency Phone: **0414 479 458**
All other inquiries: +61 7 3274 6911

2. HAZARDS IDENTIFICATION

Hazard Classification

This product is classified as hazardous according to Australian Safety and Compensation Council criteria.

Hazard Category

Non Allocated

Risk Phrases

Harmful by inhalation and in contact with skin
Irriating to skin

Safety Phrases

S 2: Keep out of the reach of children
S 9: Keep container in a well-ventilated place
S 16: Keep away from sources of ignition
S 23: Do not breath powder
S 24/25: Avoid contact with skin and eyes

Dangerous Goods Classification

3

Poisons Schedule

6

3. COMPOSITION: Information on Ingredients

Chemical Ingredient	CAS Number	Proportion (% v/v)
Portland Cement Component	65997-15-1	20-30%
Silica Sand	14808-60-7	70-80%

4. FIRST AID MEASURES

For advice, contact Poisons Information Centre (Phone Australia: 13 1126) or a doctor.

Ingestion

If swallowed, DO NOT induce vomiting. Keep at rest. Seek immediate medical attention.

Eye Contact

Flush eyes with large amounts of water until irritation subsides. Seek immediate medical attention.

Skin Contact

Flush area with large amounts of water and wash area with soap if available. Remove contaminated clothing, including shoes, and launder before reuse. Seek medical attention for skin irritations.

Inhalation

Using proper respiratory protection, immediately remove the affective victim from exposure. Administer artificial respiration if breathing has stopped. Keep at rest. Seek immediate medical attention.

First Aid Facilities

Provide eye baths and safety showers.

Medical Attention

Treat according to symptoms. Avoid gastric lavage - aspiration of product to the lungs may result in chemical pneumonitis.

5. FIRE FIGHTING MEASURES

Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress providing fire fighters with this Material Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable Extinguishing Media

N/A

Hazards from combustion products

N/A

Precautions for fire fighters and special protective equipment

Full protective clothing and self-contained breathing apparatus

Hazchem Code

N/A

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Avoid contaminating waterways, drains or sewers as material will harden and a possibility of blocking the flow of water.

When in contact with water elements the PH will rise and give a sufficient increase that may be toxic to aquatic life in these circumstances.

Disposal of product requires reference to any appropriate authority in your State. Dispose of material through a licensed contractor. Suitable for disposal by approved waste disposal agent.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Wear gloves, eye protection, mask and suitable clothing when handling.

Conditions for Safe Storage

Store in a cool, dry place away from direct sunlight. Do not pressurise, cut, heat or weld containers - residual vapours are flammable. This product is flammable and will fuel a fire in progress.

Incompatible Materials

N/A

8. EXPOSURE CONTROLS: PERSONAL PROTECTION

National Exposure Standards

The time weighted average concentration (TWA) for Portland Cement Crystalline Silica is: 10 mg/m^3, .2mg/m^3 respirable dust TWA which means the highest allowable exposure concentration in an eight-hour day for a five-day working week. The short term exposure limit (STEL) is: .7 mg/m^3, which is the maximum allowable exposure concentration over a 15 minute period which should not be exceeded at any time in a normal eight hour workday.

Replacing a TWA or STEL value for some products is a Peak Limitation value (Peak): None applies in this case. In addition to the exposure concentrations may be a subsidiary caution in such cases where the product is a skin sensitiser, represented as (Sk), where none applies in this case.

According to current knowledge these concentrations should neither impair the health, nor cause undue discomfort to, nearly all workers. These exposure standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. Exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Engineering Controls: Ventilation

The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces. Use explosion proof equipment.

Personal Protective Equipment

Respiratory Protection: Where concentrations in air may approach or exceed the limits described in the National Exposure Standards, it is recommended to use a half-face filter mask to protect from overexposure by inhalation. A type P1 filter complying to AS/NZS 1715 and AS/NZS 1716 material is considered suitable for this product.

Eye Protection: Always use safety glasses with side shields or goggles conforming to AS/NZS when handling this product.

Skin/Body Protection: Always wear long sleeves, long trousers, or coveralls, and enclosed footwear or safety boots when handling this product. It is recommended that gloves be worn when handling this product that conforms to AS/NZS 2161.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical Value
Appearance	None	Off White cemetious powder
Boiling Point/Range	℃	N/A
Flash Point	℃	N/A
SG/Density (@ 15℃)	g/ml; kgm^{-3}	N/A
Vapour Pressure @ 20℃	kPa	None

Property	Unit of measurement	Typical Value
Vapour Density @ 20℃	g/ml; kgm^{-3}	None
Autoignition Temperature	℃	N/A
Explosive Limits in Air	% vol/vol	N/A
Bulk Density	Kg/m^3	-1300
Percent volatiles	% vol/vol	N/A
Acidity/alkalinity as pH	None	Not applicable
Solubility in Water	g/l	Soluble in water
Other solvents	-	N/A

The values listed are indicative of this product's physical and chemical properties. For a full product specification, please consult the Technical Data Sheet.

10. STABILITY AND REACTIVITY

Chemical stability

This product is stable at room temperature and pressure.

Conditions to avoid

Ignition sources, heat: excessive sunlight or UV exposure

Hazardous decomposition products

N/A

Hazardous reactions

Sets hard with water

Hazardous polymerisation

Will not occur

11. TOXICOLOGICAL INFORMATION

Acute Effects

Ingestion

If swallowed, may cause lung damage on vomiting. Will cause central nervous system depression. May cause discomfort on swallowing. Vapours will cause drowsiness and dizziness and ingestion may result in headaches and nausea.

Eye Contact

Eye contact with this product will cause redness and swelling with a burning sensation.

Skin Contact

This product is irritating to the skin with prolonged exposure. It may result in dryness and cracking.

Inhalation

Harmful by inhalation. Vapours will cause dizziness and drowsiness. There is the possibility of organ damage over prolonged use or exposure. Central Nervous System depression includes nausea, headaches, dizziness, and possibly loss of consciousness.

Toxicological Information

No Toxicological information is available for this product.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Toxicity:

Avoid contaminating waterways, drains and sewers as material will harden with a possibility of blocking flow of water. When in contact with water, cements will cause the ph to rise and give a sufficient increase that may be toxic to aquatic life in these circumstances.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities. Packaging may still contain product residue that may be harmful.

14. TRANSPORT INFORMATION

Road and Rail Transport		Marine Transport		Air Transport	
UN No.	Non Allocated		Non Allocated		Non Allocated
Proper Shipping Name	Non Allocated		Non Allocated		Non Allocated
DG Class	Non Allocated		Non Allocated		Non Allocated
Packing Group	Non Allocated		Non Allocated		Non Allocated
Hazchem	Non Allocated		Non Allocated		Non Allocated

Dangerous Goods Segregation

This product is classified as Non-Dangerous Goods for Transport by Road and Rail.

15. REGULATORY INFORMATION

Poisons Schedule: Not Poisonous

Risk Statement: R38 Irritating to skin

R41 Risk of serious damage to eyes

Safety Statement: S2 Keep out of reach of children

S 26 In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre

S62 If swallowed do not induce vomiting; seek medical advice immediately and show container label

S24/25 Avoid contact with skin and eyes.

S36/37/39 wear suitable protective clothing, gloves and eye/face protection.

Hazard Category: Irritant

16. OTHER INFORMATION

Reasons for Issue: Upgraded MSDS. New information in all sections.

Abbreviations:

AICS: Australian Inventory of Chemical Substances

CAS Number: Chemical Abstracts Number

IARC: International Agency for Research on Cancer

ASCC: Australian Safety and Compensation Council

References:

- Supplier Material Safety Data Sheets
- *Sax's Dangerous Properties of Industrial Materials*, Richard J Lewis Snr., pub. Canada (2000)

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact Shieldcoat Pty Ltd.