SAFETY DATA SHEET Granulated Blast Furnace Slag

Section 1: Identification of the Material and Supplier

Company Details

Cement Australia Pty Limited

ABN 75 104 053 474	
18 Station Avenue Darra, Queensland 4076	Tel: 1300 CEMENT (1300 236 368) Fax: 1800 CEMENT (1800 236 368) Website: www.cementaustralia.com.au
Emergency Contact Number:	Contact Person: Technical Manager Telephone: 1300 CEMENT (1300 236 368 - Business Hours) or Poisons Information Centre 13 11 26
Manufacturing Plants	
Brisbane	77 Pamela Street, Pinkenba QLD 4008
Port Kembla	Off Christy Rd, Port Kembla, NSW 2505
Product	
Nama	Crowned Cremulated Place Furness Slag
Name:	Ground Granulated Blast Furnace Slag

Granulated Blast Furnace Slag is used as an aggregate material in construction and as a raw material for Ground Granulated Blast Furnace Slag (GGBFS), a supplementary

Section 2: Hazards Identification

Hazardous Substance. Non-dangerous Goods. The raw material does not expose the user to the same risks as the Ground/Powdered product. See Ground Granulated Blast Furnace Slag for Safety Data.

cementitious material used in concrete

Prevention statement(s)

Use:

P501

The vention statement	5)
P261	Avoid breathing dust.
P280	Wear protective gloves/protective clothing/eye protection/face protection against Dust.
Response statement(s	
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and
P312	easy to do. Continue rinsing.
P321	Call a POISON CENTER or doctor/physician if you feel unwell.
P332 + P337 + P313	Specific treatment is advised - see first aid instructions.
P362	If skin or eye irritation occurs: Get medical advice/ attention.
	Take off contaminated clothing and wash before re-use.
Storage statement(s)	
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
Disposal statement(s)	

Dispose of contents/container in accordance with relevant regulations.

For more information call **1300 CEMENT** (1300 236 368) or visit **www.cementaustralia.com.au**



Mix it with the best.

Section 3: Composition/Information on Ingredients

GGBFS derives from a by-product of the steel industry produced by adding limestone flux to the ore to remove non-ferrous contaminants. This raw product is then milled to a fine powder form for its intended use. All significant constituents are listed below:

Chemical Entity

Proportion

CAS Number

Granulated Blast Furnace Slag

>90%

65996-69-2

Section 4: First Aid Measures

4.1 Description of first aid measures

Eye	If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.
Inhalation	If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.
Ingestion	For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.
First aid facilities	Eye wash facilities and safety shower should be available.

4.2 Most important symptoms and effects, both acute and delayed

Irritating to the eyes, skin and respiratory system. Chronic over exposure to silica quartz dust may result in silicosis (lung disease). Principal symptoms of silicosis are coughing and breathlessness. Some individuals may exhibit an allergic response upon exposure to this product, possibly due to the trace amounts of chromium present. Crystalline silica and hexavalent chromium compounds are classified as carcinogenic to humans (IARC Group 1).

4.3 Immediate medical attention and special treatment needed

Treat as for moderate to strong alkali and symptomatically.

Section 5: Fire Fighting Measures

Fire/Explosion Hazard:	None
Hazchem Code:	None allocated
Flammability:	Not flammable
Extinguishing Media:	None required
Hazards from Combustion Products:	None
Special Protective Precautions	None required
and equipment for fire fighters:	

Section 6: Accidental Release Measures

Spills:

Spills are best cleaned up by vacuum device to avoid generating airborne dust. Recommendations on Exposure Control and Personal Protection should be followed during spill clean-up. Keep product out of storm water and sewer drains.



Section 7: Handling and Storage

Handling:When supplied in bags, to be handled in accordance with Hazardous Manual Tasks Code of Practice.Storage:Protect from excessive moisture and heat to prevent hardening. Storage of GGBFS may be in silos or steel bins.

Section 8: Exposure Controls/Personal Protection

8.2 Exposure controls

Engineering controls	Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain dust levels below the recommended exposure standard.
PPE	
Eye / Face	Wear safety glasses or dust-proof goggles when handling material to avoid contact with eyes.
Hands	Wear PVC, rubber or cotton gloves when handling material to prevent skin contact.
Body	Wear long sleeved shirt and full-length trousers.
Respiratory	Where an inhalation risk exists wear a Class P1 (Particulate) respirator, dependent on a site-specific risk assessment.

Section 9: Physical and Chemical Properties

Appearance (dry):	A granular product ranging in colour form grey to off-white
Odour:	No distinctive odour
Boiling/Melting Point:	Melting point >1200°C
Vapour Pressure:	Not applicable
Specific Gravity:	3.0 – 3.2
Flash Point:	Non applicable
Flammability Limits:	Not applicable
Solubility in Water:	Slight, reacts on mixing with water forming an alkaline (caustic) solution (pH >10)
Particle Size:	Some small proportion of the fresh dry material may be respirable (below 10 microns)

Section 10: Stability and Reactivity

Chemical Stability:	Chemically stable
Conditions to Avoid:	Keep free of moisture
Incompatible Materials:	None
Hazardous Decomposition Products:	None
Hazardous Reactions:	None



Section 11: Toxicological Information

Granulated Slag is a stable substance, compatible with most other building materials, will not decompose into hazardous byproducts and do not polymerise.

Acute toxicity	No known toxicity data is available for this product. Based on available data, the classification criteria are not met.
Skin	Irritating to the skin. Contact with powder or wetted form may result in irritation, rash and dermatitis.
Еуе	Irritating to the eyes. Contact may result in irritation, lacrimation, pain, redness, corneal burns and possible permanent damage.
Sensitization	This product is not classified as a skin or respiratory sensitiser.
Mutagenicity	Insufficient data available to classify as a mutagen.
Reproductive STOT – single exposure	Insufficient data available to classify as a reproductive toxin. Irritating to the respiratory system. Over exposure may result in irritation of the nose and throat, with coughing. High level exposure may result in breathing difficulties.
Aspiration	This product is a solid and aspiration hazards are not expected to occur.

Section 12: Ecological Information

Ecotoxicity:	Product forms an alkaline slurry when mixed with water.
Persistence and Degradability:	Product is persistent and would have a low degradability.
Mobility:	A low mobility would be expected in a landfill situation.

Section 13: Disposal Considerations

GGBFS can be treated as a common waste for disposal or dumped into a landfill site, in accordance with local authority guidelines.

Keep material out of storm water and sewer drains.

Measures should be taken to prevent dust generation during disposal, and exposure and personal precautions should be observed (see above)

Section 14: Transport Information

Transportation is done in bulk or bag form by Ship, Rail and Road.

UN Number:	None allocated
Proper Shipping Name:	None allocated
Class and Subsidiary Risk:	None allocated
Packing Group:	None allocated
Special precautions for user:	Avoid generating and breathing dust
Hazchem Code:	None allocated

Section 15: Regulatory Information

GGBFS is not classified as Dangerous Goods.

A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Classified as Hazardous per the criteria of the National Occupational Health and Safety Commission (NOHSC) Approved Criteria for Classifying Hazardous Substances [NOHSC:1008] 3rd Edition

AUSTRALIA: AICS (Australian Inventory of Chemical Substances) All components are listed on AICS, or are exempt



Section 16: Other Information

For further information on this product contact:

Telephone: 1300 CEMENT (1300 236 368) (Business Hours) Facsimile: 1800 CEMENT (1800 236 368)

Next Review Date for this MSDS: 31 December 2020.

Australian and New Zealand Standards:

AS 2161: Industrial Safety Gloves and Mittens (excluding electrical and medical gloves).

AS/NZ 1336: Recommended Practices for Occupational Eye Protection.

AS/NZS 1715: Selection, use and maintenance of respiratory protective devices.

AS/NZS 1716: Respiratory protective devices.

AS/NZS 4501: Occupational protective clothing.

Advice Note:

Cement Australia believes the information in this document to be accurate as at the date of preparation noted below, but, to the maximum extent permitted by law, Cement Australia accepts no responsibility for any loss or damage caused by any person acting or refraining from action because of this information.

The provision of this information should not be construed by anyone as a recommendation to use this product. No one should use any product in violation of any patent or other intellectual proprietary rights or in breach of any statute or regulation.

Users should rely on their own knowledge and inquiries and make their own determination as to the applicability of this information in relation to their particular purposes and specific circumstances. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace and in conjunction with other substances or products.

