



BEIJING MININGSUN IMP AND EXP CO., LTD

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MATERIAL SAFETY DATA SHEET

Issued by	BEIJING MININGSUN IMPORT & EXPORT CO., LTD.
Product Name	GGBFS - Ground Granulated Blast Furnace Slag
Trade Name	Miningsun GGBFS
Synonyms	GGBFS, GGBS, Slag Powder
CAS No.	65996-69-2
Product Application	Cementitious systems
Creation / Issue Date	18-Dec-2025. Valid for 5 years from this date.

Section 1 - Identification of the Material and Supplier

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Description: A ground powder made with an appropriate mill from a glassy granular material formed when molten iron blast-furnace slag is rapidly chilled, such as by immersion in water.

Section 2 - Hazards Identification

Statement of Hazardous Nature: GGBFS is unlikely to cause harmful effects when handled and stored as advised. Avoid inhalation of dust and avoid exceeding occupational exposure limits.

Emergency Overview: Beige to white powder with traces of sulfur odor. The product itself is not combustible. Dust may cause mechanical irritation to the eyes, skin, nose, throat and respiratory tract.

PREVENTION: Avoid generating airborne dust. Use adequate ventilation. Avoid eye and skin contact. Use personal protective equipment as required.

RESPONSE: Remove exposed person to fresh air if dust is inhaled. Wash skin with water and pH-neutral soap. Flush eyes with clean water if dust enters the eyes.

STORAGE: Store in a dry area, preferably in closed containers. Keep dry until used.

Section 3 - Composition/Information on Ingredients

Components	CAS No.	Percentage (Approx), %
Calcium oxide (CaO)	1305-78-8	30-50
Silicon dioxide (SiO ₂)	7631-86-9	30-40
Magnesium oxide (MgO)	1309-48-4	2-14
Aluminum oxide (Al ₂ O ₃)	1344-28-1	7-18
Iron oxide (Fe ₂ O ₃)	1309-37-1	0.1-1.8
Manganese oxide (MnO)	7439-96-5	0-1.0



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Components	CAS No.	Percentage (Approx), %
Sulfur (S)	7704-34-9	0-2.0

Section 4 - First Aid Measures

Eyes	Immediately flush eyes with plenty of clean water for at least 15 minutes while holding the eyelids open. Do not attempt to remove material beyond flushing. Contact a physician if irritation persists or develops.
Inhalation	Remove to fresh air. Dust in throat and nasal passages should clear spontaneously. Contact a physician if irritation persists or develops.
Skin	Wash with cool water and a pH-neutral soap or mild detergent intended for use on skin. Seek medical treatment in cases of prolonged direct exposure to wet product or prolonged wet skin exposure to dry product.
Ingestion	Do not induce vomiting. If the person is conscious, rinse mouth and give a large quantity of water. Get immediate medical attention if symptoms occur.

Section 5 - Fire Fighting Measures

Flash Point	N/A
Extinguishing Media	Use media suitable for the surrounding fire.
Special Fire Fighting Procedures	N/A
Unusual Fire & Explosion Hazards	None reported.
Flammable Limits	N/A
Lower Explosive Limit	N/A
Upper Explosive Limit	N/A

Section 6 - Accidental Release Measures

Avoid exposure to dust of GGBFS. Released material should be collected in suitable containers. Use dry clean-up methods that do not disperse dust into the air. Avoid actions that cause dust to become airborne. Avoid inhalation of dust and contact with skin. Wear appropriate personal protective equipment. Scrape up wet material and place in an appropriate container. Allow the material to dry before disposal.

Section 7 - Handling and Storage

Handling	Avoid dust generation. Handle with adequate ventilation for dust. Avoid eye and skin contact. Use good housekeeping in storage and use areas to prevent dust accumulation.
Storage	Store in a dry area, preferably in closed containers. Keep dry until used. Do not store or handle near food, beverages or smoking materials.

Section 8 - Exposure Controls and Personal Protection

Ventilation	Use local exhaust or general ventilation adequate to maintain exposures below applicable exposure limits.
Engineering Controls	Exposure levels should be monitored regularly. Exposure levels in excess of appropriate limits should be reduced by feasible engineering controls, including ventilation, process enclosure and enclosed workstations.



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Respiratory Protection	When exposure levels exceed or are likely to exceed appropriate exposure limits, use NIOSH-approved respiratory protection equipment or equivalent.
Skin Protection	Wear protective gloves, shoes and protective clothing that are impervious to water to avoid skin contact.
Eye Protection	Wear safety glasses with side shields as minimum protection. Dust goggles should be worn when excessive visible dust is present or anticipated. Contact lenses should not be worn when working with this product.
Hygiene	Periodically wash exposed skin with pH-neutral soap. Wash before eating, drinking, smoking and using toilet facilities. Wash work clothes after each use.

Exposure limits are listed for reference where applicable and should be interpreted according to local workplace regulations.

Substance	Exposure Limits
Calcium Oxide (CaO)	OSHA PEL 5 mg/m ³ ; ACGIH TLV 5 mg/m ³ ; NIOSH REL 2 mg/m ³
Silicon Dioxide (SiO ₂)	OSHA PEL (respirable) 80 mg/m ³ / (% SiO ₂); ACGIH TLV 20 m.p.p.c.f.; NIOSH REL 6 mg/m ³
Magnesium Oxide (MgO)	OSHA PEL 15 mg/m ³ (total particulate); ACGIH TLV 10 mg/m ³
Aluminum Oxide (Al ₂ O ₃)	OSHA PEL 5 mg/m ³ (respirable), 15 mg/m ³ (total dust); ACGIH TLV 10 mg/m ³
Iron Oxide (Fe ₂ O ₃)	OSHA PEL 10 mg/m ³ ; ACGIH TLV 10 mg/m ³ ; NIOSH REL 5 mg/m ³
Manganese Oxide (MnO)	OSHA ACC 5 mg/m ³ ; ACGIH TLV 5 mg/m ³ ; NIOSH STEL 3 mg/m ³ ; NIOSH REL 1 mg/m ³
Sulfur (S)	Not listed
Other Particulates	OSHA PEL 15 mg/m ³ (total particulate), 5 mg/m ³ (respirable particulate); ACGIH TLV 10 mg/m ³ (nuisance particulates)

Section 9 - Physical and Chemical Properties

Property	Value
Appearance & Odor	Beige to white powder with traces of sulfur odor.
Color	White
Specific Gravity (H ₂ O=1)	2.80-2.95
Solubility in Water	0.1-0.5%
Boiling Point	N/A
Melting Point	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Evaporation Rate	N/A

Section 10 - Stability and Reactivity

Stability	Stable under normal conditions.
Conditions to Avoid	Avoid moisture. Keep dry until used.
Incompatibility	None known.
Hazardous Decomposition / Byproducts	Respirable dust particles may be generated when the product is handled.
Hazardous Polymerization	Will not occur. No conditions to avoid.



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Section 11 - Toxicological Information

Primary Routes of Entry	Inhalation: Yes. Skin: Yes. Ingestion: No or unlikely.
Eye Contact	Minor irritation to the eyes. Direct contact by larger amounts of material or splashes of wet material may cause effects ranging from moderate eye irritation to chemical burns and blindness.
Inhalation	Dusts may irritate the nose, throat and respiratory tract. Coughing, sneezing and shortness of breath may occur following exposures in excess of appropriate exposure limits.
Skin Contact	Exposure to dry material may cause drying of the skin with consequent mild irritation. Dry material contacting wet skin, or exposure to moist or wet material, may cause more severe skin effects including thickening, cracking or fissuring of the skin. Prolonged exposure can cause severe skin damage in the form of caustic chemical burns.
Ingestion	Ingestion of large amounts may cause gastrointestinal irritation and blockage.
Chronic Effects	Inhalation of GGBFS dust is considered to entail minimal risk of pulmonary fibrosis. However, chronic obstructive lung disease is suspected following long-term exposure for years at concentrations above recommended occupational exposure limits.

Section 12 - Ecological Information

Environmental Classification	GGBFS is not characterised as dangerous for the environment.
Mobility	The product is not mobile under normal environmental conditions.
Persistence	Not relevant for inorganic substances.
Bioaccumulation	Not relevant.
Ecotoxicity	Daphnia magna: 24 h EC50 > 1002 mg/L; 24 h EC100 > 1002 mg/L; NOEC 319 mg/L. No acute toxicological effects could be observed in Microtox screening test organisms.

Section 13 - Disposal Considerations

The material should be recovered for recycling if possible. Do not attempt to wash material down drains. Dispose of waste materials only in accordance with applicable federal, state, local and other relevant laws and regulations. This material is not classified as hazardous waste according to Commission Decisions 2000/532/EC and 2001/118/EC.

Section 14 - Transport Information

Not a hazardous material in transportation. Not regulated and not classified by IMDG. Not classified by transport regulations. No special transport conditions are necessary unless required by other applicable regulations.

Section 15 - Regulatory Information

Product Classification and Labelling	Not subject to classification.
Symbol	Not subject to classification.
R-phrases	None.
S-phrases	None.
Reference	This Data Sheet is prepared using available information and in reference to Commission Directive 2001/58/EC, Council Directive 67/548/EEC and subsequent amendments.



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Section 16 - Other Information

This MSDS contains safety-related information only. Physical and chemical data contained in this MSDS are provided for use in assessing the hazardous nature of the material. The MSDS was prepared carefully using available references; however, Beijing Miningsun Import & Export Co., Ltd. does not certify the data on the MSDS. Final determination of suitability of any material is the sole responsibility of the user. Please read all labels carefully before using the product.

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Authorized Signature / Company Stamp

