

SAFETY DATA SHEET

AXSINA® MICRONISED GGBS

Mineral additive systems for cementitious and hybrid binder technologies

Document control	Value
Supplier	AXSINA Global Ltd
Product identifier	AXSINA MICRONISED GGBS
SDS version	1.0
Revision date	12 September 2026
Supersedes	New SDS / previous draft
Language	English
Applicable framework	REACH (EC) No 1907/2006, Annex II; Commission Regulation (EU) 2020/878; CLP (EC) No 1272/2008, including applicable amendments
UFI	[to be determined one UFI per relevant mixture]

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Item	Information
Product name	AXSINA MICRONISED GROUND GRANULATED BLAST FURNACE SLAG
Product type	supplementary cementitious material (SCM) that is used in the manufacture of cementitious binders and as a partial replacement for Portland Cement in concrete and other similar products. Also used in glass making, construction sand, and as a agricultural soil conditioner
UFI	[TBD]
REACH registration status	Mixture; component registration status to be verified from supplier/registrant documentation

1.2 Relevant identified uses of the substance or mixture and uses advised against

- Identified uses: strength-enhancing additive, hardening accelerator and shrinkage-compensating additive for cementitious and hybrid binder systems; industrial and professional construction-material applications.
- Uses advised against: uses other than those identified above, unless specifically assessed and authorised by the supplier.

1.3 Details of the supplier of the safety data sheet

Supplier	AXSINA Global Ltd
Address	Hennessy Road., Hong Kong
Telephone	+31 (0)8 887558000
E-mail	sales@axsina.com
Responsible person for SDS	[TBD]

1.4 Emergency telephone number

Emergency telephone	+31 (0)8 887558000 [24-hour emergency service to be confirmed]
Languages supported	English

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Regulation (EC) No 1272/2008

This substance is not classified as hazardous according to Regulation (EC) No 1272/2008.

2.2 Label elements

	Signal word DANGER
Labelling in accordance with Regulation (EC) No 1272/2008 [CLP]	None
Hazard statements	H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation.
Precautionary statements	Upon contact with moisture, the product develops an alkaline pH and can cause irritation. Contact with moist skin or eye moisture results in a pH ≥ 11.5 . The substance is irritating to the eyes and respiratory tract. Prolonged and repeated unprotected exposure may lead to lung disorders. Avoid dust formation. During use, skin contact with wet concrete or mortar can cause irritation, dermatitis, and redness. Ground slag reacts slowly with moisture on the skin.
Supplemental information	This substance does not meet the PBT/vPvB criteria of the REACH Regulation, Annex XIII. This substance does not have endocrine-disrupting properties with respect to humans. This substance does not have endocrine-disrupting properties with respect to non-target organisms.).

2.3 Other hazards

- Dry powder can generate respirable dust during handling.
- Contact with water produces an alkaline suspension/paste; high pH may cause environmental harm if released in quantity.
- PBT/vPvB: based on supplied information, the mixture is not expected to meet PBT/vPvB criteria; final assessment requires component data.
- Endocrine disrupting properties: no substances identified on the basis of the information currently available; verify against the latest applicable lists.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is supplied as a mixture.

3.2 Mixtures

Component / constituent	CAS / EC No.	Concentration	CLP classification
GRANULATED BLAST FURNACE SLAG	65996-69-2	99 ≤ 100	Eye Dam. 1 (H318), Skin Irrit. 2 (H315), STOT SE 3 (H335)
Calcium sulfate / anhydrite or related sulfate phase(s)	7778-18-9	< 0.10%	Not classified
Other organic /mineral components / additives	N/A	N/A	Not classified

SECTION 4: First aid measures

4.1 Description of first aid measures	
Inhalation	Move to fresh air. Keep at rest and in a position comfortable for breathing. Seek medical advice if irritation, coughing or breathing difficulty persists.
Skin contact	Remove contaminated clothing. Brush off dry material and rinse skin thoroughly with plenty of water. Seek medical attention if irritation persists.
Eye contact	Immediately rinse cautiously with clean water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Obtain immediate medical attention due to risk of serious eye damage.
Ingestion	Rinse mouth. Do not induce vomiting. Give water if the person is conscious. Obtain medical advice if unwell.
4.2 Most important symptoms/effects	Irritation of skin and respiratory tract; severe eye damage. Symptoms may be delayed.
4.3 Immediate medical attention	For eye exposure, urgent medical assessment is recommended.

SECTION 5: Firefighting measures

5.1 Suitable extinguishing media	The product is non-combustible. Use extinguishing media appropriate for the surrounding fire.
Unsuitable media	None known.
5.2 Special hazards	Thermal decomposition or reaction with strong acids may release sulphur oxides (SOx) and other irritating gases.
5.3 Advice for firefighters	Wear self-contained breathing apparatus and full protective equipment where dust or decomposition products may be present. Prevent contaminated firefighting water from entering drains or watercourses.

SECTION 6: Accidental release measures

6.1 Personal precautions	Avoid dust formation. Do not breathe dust. Avoid contact with skin and eyes. Use PPE specified in Section 8. Restrict access to the affected area where appropriate.
6.2 Environmental precautions	Prevent uncontrolled entry into drains, surface water, groundwater and soil. Contact with water can produce a strongly alkaline suspension.
6.3 Containment and cleaning	Collect dry material without creating airborne dust. Prefer industrial vacuum equipment with suitable filtration. Alternatively carefully sweep using dust-suppressing methods. Place recovered material in closed, labelled containers for disposal/reuse where permitted.
6.4 Reference	See Section 8 for exposure controls/PPE and Section 13 for disposal.

SECTION 7: Handling and storage

7.1 Safe handling	Minimise dust generation. Avoid breathing dust and contact with skin/eyes. Provide adequate ventilation. Do not eat, drink or smoke during use. Wash thoroughly after handling.
7.2 Safe storage	Store in a cool, dry, well-ventilated place. Keep packaging tightly closed and protected from moisture/humidity. Protect from incompatible materials. Follow FIFO stock rotation where appropriate.
Incompatibilities	Strong acids and strong oxidising agents; avoid prolonged contact with moisture.
7.3 Specific end use(s)	Building and construction-material additive for cementitious and hybrid binder systems.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Parameter	Value / guidance
Inhalable dust	10 mg/m ³ , 8-hour TWA — source value from supplied draft; confirm applicable national OEL.
Respirable dust	3 mg/m ³ , 8-hour TWA — source value from supplied draft; confirm applicable national OEL.
Component-specific limits	Insert binding/national OELs for all disclosed hazardous components once composition is finalised.

8.2 Exposure controls/personal protection

- Engineering controls: provide adequate general and local exhaust ventilation to keep airborne dust below applicable occupational exposure limits.
- Eye/face: tightly fitting safety goggles or face protection suitable for alkaline/corrosive dust (EN 166 or current applicable standard).
- Hands: chemical-resistant protective gloves; select material and breakthrough time according to actual exposure (e.g. nitrile/NBR), in accordance with EN ISO 374 or current applicable standard.
- Body: protective long-sleeved work clothing and suitable safety footwear.
- Respiratory: where dust exposure cannot be adequately controlled by ventilation, use an appropriate particulate respirator (e.g. P2/P3 under EN 149 or equivalent) selected through workplace risk assessment.
- Hygiene: eyewash facilities and suitable emergency washing facilities should be readily available where significant exposure is possible.
- GROUND GRANULATED BLAST FURNACE SLAG (65997-69-2)
- **Standards** ES-TWA: 10mg/m₃ (Respirable Dust)
- SILICA, CRYSTALLINE – QUARTZ (14808-60-7)
- ES-TWA: 0.05 mg/m₃ (Respirable Dust).
- CHROMIUM (VI) HEXAVALENT (18540-29-9)
- ES-TWA: 0.05 mg/m₃ (Chromium VI compounds)
- **PPE** Wear dust-proof goggles and rubber or PVC gloves. Where an inhalation risk exists, wear a Class P2 respirator. If there is potential for prolonged and/or excessive skin contact, wear coveralls. At high dust levels, wear a Class P3 respirator or a Powered Air Purifying Respirator (PAPR) with Class P3 filter.



SECTION 9: Physical and chemical properties

Property	Value / information
Physical state	Solid powder
Colour	White
Odour	Odourless
Melting/freezing point	Not applicable / no reliable data available
Boiling point	Not applicable
Flammability	Non-flammable / non-combustible
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not determined
pH	11–13 (aqueous solution/suspension; concentration dependent)
Kinematic viscosity	Not applicable (solid)
Solubility	Partially soluble in water; hydrates/hardens over time
Partition coefficient	Not applicable for inorganic mixture
Vapour pressure	Not applicable
Density / relative density	1.20–1.60 g/cm ³ at 20 °C [verify]
Particle characteristics	Powder; particle-size distribution to be specified in technical documentation where relevant
Explosive/oxidising properties	Not expected under normal conditions; verify if required by the final formulation

SECTION 10: Stability and reactivity

10.1 Reactivity	Reacts with water through hydration and hardening. Reaction is exothermic.
10.2 Chemical stability	Stable under normal ambient conditions and when stored dry.
10.3 Hazardous reactions	Exothermic reaction with strong acids; contact with incompatible materials may generate heat or irritating gases.
10.4 Conditions to avoid	Moisture, humidity, excessive heat and contamination with incompatible materials.
10.5 Incompatible materials	Strong acids; strong oxidising agents.
10.6 Hazardous decomposition products	Under severe thermal decomposition or acidic reaction, sulphur oxides (SOx) may be released.

SECTION 11: Toxicological information

11.1 Information on hazard classes	Assessment / source information
Acute toxicity	Based on available information in the supplied draft, classification criteria are not met; confirm by final mixture calculation and component data.
Skin corrosion/irritation	Causes skin irritation (provisional Category 2).
Serious eye damage/irritation	Causes serious eye damage (provisional Category 1).
Respiratory/skin sensitisation	No definitive sensitisation classification in the supplied draft; assess all relevant components, including chromium(VI) where applicable.
Germ cell mutagenicity	No classification based on currently supplied information; verify component data.
Carcinogenicity	No classification based on currently supplied information; verify component data.
Reproductive toxicity	No classification based on currently supplied information; verify component data.
STOT — single exposure	May cause respiratory irritation (provisional Category 3).
STOT — repeated exposure	No classification based on currently supplied information.
Aspiration hazard	Not applicable to solid inorganic powder.
Endocrine disrupting properties	No substances identified on the basis of current information; verify latest regulatory lists.

SECTION 12: Ecological information

12.1 Toxicity	Aqueous suspensions can be strongly alkaline (pH > 11), which may cause local adverse effects to aquatic organisms through pH elevation.
12.2 Persistence and degradability	Not applicable to inorganic mineral constituents. Hydration/hardening may immobilise constituents in a mineral matrix.
12.3 Bioaccumulative potential	Not expected to bioaccumulate based on inorganic nature; component-specific assessment required.
12.4 Mobility in soil	Low mobility is expected after hydration/hardening. Unhydrated powder may be transported with soil/sediment.
12.5 PBT/vPvB assessment	Based on currently available information, the mixture is not expected to meet PBT/vPvB criteria. Verify component status.
12.6 Endocrine disrupting properties	No substances identified on the basis of current information; verify latest applicable lists.
12.7 Other adverse effects	Avoid uncontrolled discharge to natural waters and drainage systems because of potential pH elevation.

SECTION 13: Disposal considerations

13.1 Waste treatment methods	Dispose of product and packaging in accordance with applicable local, regional and national legislation. Prevent release to drains and watercourses. Unused product should be recovered/reused where technically and legally possible.
Packaging	Empty packaging should be completely emptied and managed according to local waste requirements. Contaminated packaging should be treated as product-contaminated waste where applicable.
EWC	17 08 02 — Gypsum-based construction materials other than those mentioned in 17 08 01 [verify the correct EWC code for the final formulation and waste stream].

SECTION 14: Transport information

14.1 UN number / ID number	Not regulated as dangerous goods, based on current supplied information.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	No classification as environmentally hazardous for transport is indicated.
14.6 Special precautions for user	Avoid release of dust and protect packaging from moisture during transport.
14.7 Maritime transport in bulk	Not applicable; assess under MARPOL/IBC requirements if bulk transport is contemplated.

SECTION 15: Regulatory information

15.1 EU legislation	EU regulations 2010/75/EU (VOC): 0% 2004/EC (VOC): 0 g/L Information on Directive 2012/18/EU: Not subject to 2012/18/EU (SEVESO III) (EU)
REACH status	Component registration/exemption status must be verified for all substances in the final formulation. Supplier/importer obligations depend on role and tonnage.
CLP notification / UFI	Where applicable, the EU legal entity responsible for placing the hazardous mixture on the EU market must ensure the required poison-centre notification and UFI obligations are fulfilled.
Authorisations/restrictions	Check current REACH Annex XIV, Annex XVII and Candidate List status for all components.
15.2 Chemical safety assessment	A Chemical Safety Assessment has not been carried out for this mixture by the supplier, based on the supplied draft. This statement must be updated if a CSA is required or performed.

SECTION 16: Other information

16.1 Indication of changes

- New structured SDS prepared/reformatted using the 16-section REACH Annex II structure.
- Revision date: 12 September 2026; SDS Version 1.0.
- Hazard classification and label elements retained from the supplied draft as provisional information pending formulation verification.

16.2 Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Classification, Labelling and Packaging Regulation (EC) No 1272/2008
ECHA	European Chemicals Agency
EWC	European Waste Catalogue
IATA/ICAO	International Air Transport Association / International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
OEL	Occupational Exposure Limit
PBT / vPvB	Persistent, Bioaccumulative and Toxic / very Persistent and very Bioaccumulative
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
STOT SE	Specific Target Organ Toxicity — Single Exposure
TWA	Time-Weighted Average
UFI	Unique Formula Identifier

16.3 Training advice

Provide appropriate training to workers on dust control, personal protective equipment, safe handling, storage, spill response and first aid.

16.4 Disclaimer / regulatory status

Key literature references and data sources

<https://echa.europa.eu/>

<https://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index.jsp>

<https://cfpub.epa.gov/ecotox/search.cfm>

<http://www.inchem.org/#/search>

<https://www.nlm.nih.gov/toxnet/index.html>

<http://ccinfoweb.ccohs.ca/rtecs/search.html>

<https://webigoletto.uba.de/rigoletto/>

Other data

To the best of our knowledge, the data contained in this safety data sheet correspond to the state of our knowledge at the time of printing. The information is intended to provide guidance on the safe handling, storage, processing, transport, and disposal of the product mentioned in this safety data sheet. The data cannot be transferred to other products. If the product is mixed or processed with other materials, the data in this safety data sheet cannot necessarily be applied to the resulting new material.