

SAFETY DATA SHEET

E-MENTRA® ANHYDROUS CALCIUM SULFATE

MICRONISED ANHYDRITE

Document control	Value
Supplier	AXSINA Global Ltd
Product identifier	E-MENTRA® Anhydrous Calcium Sulfate
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	E-MENTRA® Anhydrous Calcium Sulfate
Product type	Inorganic mineral filler / binder component / ultra-fine ground anhydrite
UFI	[TBD]
REACH registration status	exempted

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

- Identified uses: High-performance functional filler, mineral extender, and binder component for industrial, building chemistry, and construction-material applications
- Uses advised against: Uses other than those identified, unless specifically assessed and authorized 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

- Classification (EC No 1272/2008): Based on standard toxicological data for natural/synthetic anhydrous calcium sulfate, the substance is not classified as hazardous under current CLP regulations.
- Note on Dust: Mechanical or handling operations (such as grinding or dry sweeping) may generate respirable crystalline silica or general nuisance dust. Handle in accordance with good industrial hygiene and safety practices.

2.2 Label elements

	Signal word DANGER
	Not applicable (non-hazardous substance under CLP).
Hazard statements	H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation.
Precautionary statements	P261: Avoid breathing dust. P280: Wear protective gloves/eye protection/face protection.
Supplemental information	EUH

2.3 Other hazards

- PBT/vPvB: The substance does not meet PBT/vPvB criteria under REACH.
- Physical Hazards: May form combustible dust concentrations if fine powder accumulates in enclosed air spaces, though inherently non-flammable.
- 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.

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
Calcium sulfate / anhydrite or related sulfate phase(s)	7778-18-9 231-900-3	99~100	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 victim to fresh air. If coughing or respiratory irritation persists, seek medical attention
Skin contact	Wash thoroughly with soap and water. Remove contaminated clothing if necessary.
Eye contact	Immediately rinse cautiously with clean water for at least 15 minutes, lifting upper and lower eyelids. Remove contact lenses if present and easy to do. Obtain medical attention if irritation persists.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting without medical advice. If large amounts are swallowed, seek medical assistance

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 Arising from the Substance or Mixture	Thermal decomposition above 1400°C can release sulfur oxides (SOx) and calcium oxide.

5.3 Advice for firefighters	Wear self-contained breathing apparatus (SCBA) and full protective gear for firefighting if necessary.
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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. Ensure adequate ventilation.
6.2 Environmental precautions	Prevent uncontrolled entry into drains, surface water, groundwater and soil.
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.

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.

8.2 Exposure controls

- 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.

SECTION 9: Physical and chemical properties

Property	Value / information
Physical state	Solid powder
Colour	White
Odour	Odourless
Melting/freezing point	> 1450°C
Boiling point	Not applicable
Flammability	Non-flammable / non-combustible
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not determined
pH	6~8 (aqueous solution/suspension; concentration dependent)
Kinematic viscosity	Not applicable (solid)
Solubility	Slightly soluble in water (≈ 2.1 g/L at 20°C); reacts slowly with water to form gypsum.
Partition coefficient	Not applicable for inorganic mixture
Vapour pressure	Not applicable
Density / relative density	2.90–3.0 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. Stable under normal conditions. Reacts with water exothermically over time to form calcium sulfate dihydrate (setting/hardening).
10.2 Chemical stability	Stable under normal ambient conditions and when stored dry.
10.3 Hazardous reactions	None under normal processing.
10.4 Conditions to avoid	Exposure to moisture, high humidity, and water prior to intended use.
10.5 Incompatible materials	Strong acids; strong oxidising agents.
10.6 Hazardous decomposition products	Under severe thermal decomposition or acidic reaction, sulphur oxides (SO _x) may be released. (> 1400°C).

SECTION 11: Toxicological information

11.1 Information on hazard classes	Assessment / source information
Acute toxicity	Based on available data, classification criteria are not met (Oral LD ₅₀ (rat) > 5000 mg/kg).
Skin corrosion/irritation	Non-irritating to skin; mechanical friction from dust may cause mild dryness.
Serious eye damage/irritation	Direct contact with dust can cause mechanical irritation and abrasions to the eyes
Respiratory/skin sensitisation	Not a skin sensitizer.
Germ cell mutagenicity	No classification based on currently supplied information; verify component data.
Carcinogenicity	Contains no components listed as carcinogens by IARC, NTP, or OSHA.
Reproductive toxicity	No classification based on currently supplied information; verify component data.
STOT — single exposure	No classification based on currently supplied information.
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 Low toxicity to aquatic life. High concentrations may temporarily elevate local water hardness or turbidity.
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. Solidifies upon prolonged contact with moisture.
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 01 04 14 (wastes from physical and chemical processing of non-metalliferous minerals). [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 nor marine pollutant.
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	Regulation (EC) No 1907/2006 (REACH), Annex II as amended by Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 (CLP); applicable amendments including Regulation (EU) 2024/2865 and its current transitional/application provisions.
REACH status	Substance exempt / registered in accordance with relevant European chemical frameworks.
CLP notification / UFI	TBD
Authorisations/restrictions	Check current REACH Annex XIV, Annex XVII and Candidate List status for all components.
15.2 Chemical safety assessment	Listed on TSCA (USA), EINECS (EU), DSL (Canada), and AICS (Australia).

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 Full text of hazard statements

- H315 — Causes skin irritation.
- H318 — Causes serious eye damage.
- H335 — May cause respiratory irritation.

16.4 Training advice

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

16.5 Disclaimer / regulatory status

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release.