

Polymer Add (Thailand) Co.,Ltd.

Office - 106, Chalarempriakiat, Lor 9, Soi 22, Yak 5, Nongbon, Prawet, Bangkok, Thailand 10250

Factory - 188/3, Moo 8, Tambon Bangpu Mai, Amphoe Muang Samut Prakan, Samutprakan, Thailand 10280

Mobile - Thai : 0804531391, English: 0839415475, E-mail – contact@polymeradd.co.th



MATERIAL SAFETY DATA SHEET CALCIUM SILICATE (SYNTHETIC)

1. Identification of the Substance Mixture and of the Company Undertaking

Field	Information
Product Name	Calcium Silicate (Synthetic)
CAS Number	1344-95-2
Relevant Identified Uses	Functional filler, anti-caking and rheology agent in plastics, polymers, coatings and industrial formulations
Uses Advised Against	Not suitable for food, medical, or pharmaceutical use without qualification
Supplier	Polymer Add (Thailand) Co., Ltd
Office Address	106, Chalarempriakiat, Lor 9, Soi 22, Yak 5, Nongbon, Prawet, Bangkok, Thailand 10250
Factory Address	188/3, Moo 8, Bangpu Mai, Muang Samut Prakan, Samutprakan, Thailand 10280
Mobile (Thai)	0804531391
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Email	contact@polymeradd.co.th

2. Hazards Identification

Field	Description
Classification (CLP)	Not classified as hazardous under Regulation (EC) No. 1272/2008
Label Elements (CLP)	No pictogram, signal word, hazard statement or precautionary statement required
Other Hazards	Airborne dust may cause mechanical irritation of the eyes, skin and upper respiratory tract. Avoid generating respirable dust.
Supplemental	EUH210: Safety data sheet available on request

3. Composition Information on Ingredients

Substance	CAS No	EC No	Purity
Calcium Silicate (synthetic)	1344-95-2	215-710-8	>= 98%

4. First Aid Measures

- **General Advice:** Remove from exposure. Seek medical advice if symptoms persist.
- **Inhalation:** Move the person to fresh air and keep comfortable for breathing. Obtain medical attention if coughing or irritation persists.

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- **Skin Contact:** Wash with soap and water. Remove contaminated clothing. Seek medical advice if irritation develops.
- **Eye Contact:** Rinse cautiously with clean water for at least 15 minutes. Remove contact lenses if present and easy to do. Obtain medical advice if irritation persists.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Drink water and seek medical advice if unwell.

5. Firefighting Measures

- **Suitable Extinguishing Media:** Product is non-combustible. Use extinguishing media appropriate for the surrounding fire.
- **Specific Hazards:** No specific fire or explosion hazard. High temperatures may produce calcium oxide and silicon oxides.
- **Protective Equipment:** Wear self-contained breathing apparatus and protective clothing where required by the surrounding fire.

6. Accidental Release Measures

- **Personal Precautions:** Avoid breathing dust and contact with eyes. Provide ventilation and wear the PPE described in Section 8.
- **Environmental Precautions:** Avoid uncontrolled release to drains and waterways.
- **Clean-Up Methods:** Avoid dry sweeping that raises dust. Vacuum with HEPA-filtered equipment or dampen carefully, collect in a suitable closed container, and dispose of according to local rules.

7. Handling and Storage

- **Handling:** Minimize dust formation and accumulation. Use local exhaust ventilation. Avoid breathing dust and observe good industrial hygiene.
- **Storage:** Keep container tightly closed in a dry, cool and well-ventilated place. Protect from moisture and incompatible materials.
- **Explosion and Fire Risk:** Non-combustible inorganic solid. Dust clouds are not expected to present a combustible-dust explosion hazard.

8. Exposure Controls Personal Protection

Field	Information
Occupational Exposure	OSHA PEL: 15 mg/m3 total dust and 5 mg/m3 respirable fraction; NIOSH REL: 10 mg/m3 total dust and 5 mg/m3 respirable fraction
Engineering Controls	Use enclosed handling and local exhaust ventilation to keep airborne dust below applicable limits
Eye and Face Protection	Safety glasses with side shields; sealed goggles where dust exposure is significant
Skin Protection	Protective gloves and work clothing; wash exposed skin after handling
Respiratory Protection	Suitable particulate respirator (P2/N95 or higher) where ventilation is insufficient
Environmental Controls	Prevent uncontrolled dispersal of dust and release to drains

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9. Physical and Chemical Properties

Property	Value
Appearance	White to off-white, free-flowing fine powder
Odour	Odourless
pH	Typically alkaline; product-specific value to be confirmed by specification
Melting Point	> 1540 °C
Boiling Point	Not applicable / no data available
Flash Point	Not applicable
Flammability	Not flammable
Vapour Pressure	Not applicable
Relative Density	Approximately 2.9 (water = 1)
Solubility in Water	Practically insoluble
Auto-Ignition Temperature	Not applicable
Decomposition Temperature	No reliable product-specific data available
Explosive Properties	Not explosive
Oxidizing Properties	Not oxidizing

10. Stability and Reactivity

- **Reactivity:** No hazardous reaction expected under normal conditions of use.
- **Chemical Stability:** Stable under recommended storage and handling conditions.
- **Possibility of Hazardous Reactions:** None known under normal conditions.
- **Conditions to Avoid:** Dust generation, moisture and contact with incompatible materials.
- **Incompatible Materials:** Strong acids. Prolonged water contact may alter the material and form calcium salts and amorphous silica.
- **Hazardous Decomposition Products:** Calcium oxide and silicon oxides may form at very high temperatures.

11. Toxicological Information

Endpoint	Information
Likely Routes of Exposure	Inhalation and eye or skin contact
Acute Toxicity	Not classified; reliable product-specific numerical data are not available
Skin Irritation	Not classified; dust may cause mechanical irritation
Eye Irritation	Dust may cause mechanical irritation, redness or watering
Respiratory Effects	Dust may irritate the nose, throat and upper respiratory tract

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Endpoint	Information
Sensitization	Not expected to be a skin or respiratory sensitizer
Germ Cell Mutagenicity	Not classified
Carcinogenicity	Not classified for synthetic non-fibrous calcium silicate
Reproductive Toxicity	Not classified
STOT and Aspiration Hazard	Not classified; aspiration hazard is not applicable to a solid powder

12. Ecological Information

Endpoint	Information
Ecotoxicity	Not classified as hazardous to the aquatic environment; product-specific test data are not available
Persistence and Degradability	Inorganic substance; biodegradation is not applicable
Bioaccumulative Potential	Bioaccumulation is not expected for an inorganic mineral
Mobility in Soil	Low mobility expected because of low water solubility
Other Adverse Effects	Avoid large or uncontrolled release to the environment

13. Disposal Considerations

- **Product Waste:** Reuse or recycle where practical. Dispose through an authorized waste contractor in accordance with local, regional and national regulations.
- **Contaminated Packaging:** Empty thoroughly. Recycle or dispose of packaging according to local requirements.
- **Waste Classification:** The appropriate waste code depends on the use and contamination history and must be assigned by the waste producer.

14. Transport Information

Mode	Classification	Remarks
ADR/RID (Road/Rail)	Not regulated	No UN number; no packing group
IMDG (Sea)	Not regulated	Not a marine pollutant
ICAO/IATA (Air)	Not regulated	Not classified as dangerous goods
DOT (USA)	Not regulated	Not classified as hazardous material

15. Regulatory Information

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- **EU REACH and CLP:** Not classified as hazardous under Regulation (EC) No. 1272/2008. REACH registration or exemption status must be confirmed for the specific supply chain and intended market.
- **United States:** CAS 1344-95-2 is listed on the TSCA Inventory. Not subject to SARA Title III Section 302 or Section 313 reporting based on the substance itself.
- **Chemical Inventories:** Inventory status outside the United States must be confirmed for the destination country before sale or import.
- **Chemical Safety Assessment:** No chemical safety assessment has been performed by Polymer Add (Thailand) Co., Ltd.

16. Other Information Calcium Silicate Synthetic CAS 1344 95 2

- **SDS Version:** 1.0 / 2026
- **Date of Preparation:** September 2026
- **Reason for Issue:** First issue in harmonized 16-section format

Abbreviations

CAS - Chemical Abstracts Service

CLP - Classification, Labelling and Packaging

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals

OSHA - Occupational Safety and Health Administration

NIOSH - National Institute for Occupational Safety and Health

PEL - Permissible Exposure Limit

REL - Recommended Exposure Limit

TWA - Time-Weighted Average

STOT - Specific Target Organ Toxicity

Disclaimer

This SDS is intended as guidance for safe handling and does not constitute product specification. The information is based on available data for synthetic calcium silicate and must be reviewed against the final product specification, impurities and destination-country requirements. Polymer Add (Thailand) Co., Ltd assumes no liability for improper use. Final responsibility lies with the end user.