

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



SAFETY DATA SHEET (SDS)

Product Name: ALUMINIUM SILICATE (SYNTHETIC)

CAS Number: 1344-00-9

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

Field	Information
Product Name	ALUMINIUM SILICATE (SYNTHETIC)
CAS Number	1344-00-9
Relevant Identified Uses	Functional filler, anti-caking agent, reinforcing filler, and processing aid in plastics, coatings, rubber, and industrial formulations
Uses Advised Against	Not intended for food or pharmaceutical use unless specifically tested and certified
Supplier	Polymer Add (Thailand) Co., Ltd
Office Address	106, Chalarempriakiat, Lor 9, Soi 22, Yak 5, Nongbon, Prawet, Bangkok, Thailand 10250
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Email	contact@polymeradd.co.th

2. Hazards Identification

Field	Description
Classification (CLP)	Not classified under Regulation (EC) No. 1272/2008
Classification (67/548/EEC)	Not classified
Label Elements	No pictograms or signal words required
Supplemental	EUH210: Safety data sheet available on request

3. Composition / Information on Ingredients

Substance	CAS No	EC No	Purity
Aluminum Silicate (synthetic)	1344-00-9	215-684-8	≥ 98%

4. First Aid Measures

- **General Advice:** No significant hazards expected under normal industrial handling conditions.
- **Inhalation:** Move to fresh air. Seek medical attention if irritation or discomfort persists.
- **Skin Contact:** Wash with soap and water.

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- **Eye Contact:** Rinse cautiously with water for several minutes. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth. Seek medical advice if large quantities are ingested.

5. Firefighting Measures

- **Extinguishing Media:** Use extinguishing media suitable for surrounding fire.
- **Fire Hazards:** Product is not combustible. Thermal decomposition can release irritating gases and vapors, including silicon dioxide and aluminum/aluminum oxide fumes. ([Fisher Scientific](#))
- **Protective Equipment:** Firefighters should wear full protective equipment and self-contained breathing apparatus. ([Fisher Scientific](#))

6. Accidental Release Measures

- **Personal Precautions:** Avoid dust generation and breathing dust. Use appropriate PPE.
- **Environmental Precautions:** Prevent unnecessary release to drains and waterways.
- **Clean-Up Methods:** Sweep or vacuum carefully without generating airborne dust. Dispose according to local regulations.

7. Handling and Storage

- **Handling:** Avoid dust formation. Use in well-ventilated areas. Avoid contact with eyes and prolonged inhalation of dust.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated place. Protect from moisture.

8. Exposure Controls / Personal Protection

Field	Information
OEL (TWA)	Not specifically assigned; follow general nuisance dust limits
Engineering Controls	Local exhaust ventilation recommended where dust is generated
PPE	Dust mask, safety goggles, gloves
Environmental Controls	Avoid unnecessary environmental release

9. Physical and Chemical Properties

Property	Value
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Appearance	White fine powder
Odour	Odourless
pH	Typically near neutral to alkaline in slurry; reported 20% slurry range about 6.5–10.5 depending on grade.
Melting Point	No reliable product-specific value generally stated in supplier SDS; some broader sodium aluminosilicate references report very high melting behavior around 1700 °C for related material classes.
Boiling Point	Not applicable
Flash Point	Not applicable
Flammability	Not combustible.
Vapour Pressure	Negligible
Relative Density	~2.2–2.6 depending on grade/reference.
Solubility in Water	Insoluble in water; may be partially soluble in strong acids/alkalis under certain conditions. (ChemicalBook)
Auto-Ignition Temperature	Not applicable
Decomposition Temperature	Not clearly established; thermal decomposition may release irritating fumes.
Explosive Properties	Not explosive; dust formation should still be minimized
Oxidizing Properties	None known

10. Stability and Reactivity

- **Stability:** Stable under normal storage and use conditions.
- **Hazardous Reactions:** None expected under normal use.
- **Incompatible Materials:** Strong oxidizing agents.
- **Decomposition Products:** Silicon dioxide and fumes of aluminum or aluminum oxide may form on thermal decomposition.

11. Toxicological Information

Test	Result
Acute Oral Toxicity	Low acute toxicity; related sodium aluminum silicate data show no mortality at 5,000 mg/kg in test systems.
Skin Irritation	Not expected to be irritating / low irritation potential.
Eye Irritation	Dust may cause mechanical irritation
Sensitization	Not expected
Carcinogenicity	Not classified

12. Ecological Information

Organism	Test Type	Result
General environmental profile	—	Low expected ecotoxicity; avoid uncontrolled release

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Biodegradability	—	Inorganic mineral material; not biodegradable in the conventional sense
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Conclusion: Inorganic silicate material with low expected acute environmental hazard under normal industrial use; avoid unnecessary dust release to the environment.

13. Disposal Considerations

- Dispose in accordance with local regulations.
- Not typically classified as hazardous waste.
- Contaminated packaging should be cleaned before reuse or disposal.

14. Transport Information

Mode	Classification	Remarks
ADR/RID	Not regulated	Non-dangerous goods
IMDG	Not regulated	Not a marine pollutant
ICAO/IATA	Not regulated	Not restricted
DOT	Not regulated	Not hazardous

15. Regulatory Information

- CLP: Not classified under Regulation (EC) No. 1272/2008. ([MilliporeSigma](#))
- REACH: CAS 1344-00-9 is associated with registered sodium aluminum silicate / silicic acid, aluminum sodium salt references in Europe. ([ECHA](#))

16. Other Information – Aluminum Silicate (Synthetic) (CAS 1344-00-9)

- SDS Version: 1.0 / 2025
- Date of Preparation: July 2025
- Reason: Alignment with Polymer Add SDS format

Disclaimer:

This SDS is intended for industrial handling, storage, and transportation. It is not a product specification. Polymer Add (Thailand) Co., Ltd disclaims liability for misuse.