

# 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:** CALCIUM CARBONATE (MICRONIZED)

**CAS Number:** 471-34-1

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

Field	Information
Product Name	CALCIUM CARBONATE (MICRONIZED)
CAS Number	471-34-1
Relevant Identified Uses	Functional filler and extender in plastics, polymers, adhesives, inks, paints, rubber, and coatings
Uses Advised Against	Not suitable for food, pharmaceutical, or cosmetic applications without prior testing
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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### 2. Hazards Identification

Field	Description
Classification (CLP)	Not classified as hazardous under Regulation (EC) No. 1272/2008
Classification (67/548/EEC)	Not classified as dangerous
Label Elements (CLP)	No pictograms, signal words, or hazard statements required
Supplemental	EUH210: Safety Data Sheet available on request

### 3. Composition/Information on Ingredients

Substance	CAS No	EC No	Purity
Calcium Carbonate	471-34-1	207-439-9	≥ 98% (micronized)

### 4. First Aid Measures

- **General Advice:** No acute hazards under normal industrial use.
- **Inhalation:** Move to fresh air. If symptoms persist, seek medical advice.
- **Skin Contact:** Wash thoroughly with soap and water. Seek medical attention if irritation develops.

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- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present.
- **Ingestion:** Rinse mouth. Non-toxic in small quantities. Consult a doctor if discomfort occurs.

## 5. Firefighting Measures

- **Extinguishing Media:** Use fire extinguishing media appropriate for surrounding materials.
- **Hazards:** Non-combustible; however, may release carbon dioxide upon decomposition at high temperatures.
- **Protective Equipment:** Use protective clothing and respiratory equipment suitable for surrounding fire.

## 6. Accidental Release Measures

- **Personal Precautions:** Avoid inhalation of dust. Use appropriate personal protection (goggles, dust mask).
- **Environmental Precautions:** Avoid release into sewers or water systems.
- **Clean-Up Methods:** Sweep or vacuum up to avoid dust generation. Dispose in accordance with regulations.

## 7. Handling and Storage

- **Handling:** Avoid dust generation. Ensure adequate ventilation.
- **Storage:** Keep container tightly sealed in dry, ventilated area. Protect from moisture.
- **Explosion/Fire Risk:** Dust may form explosive mixtures in air under extreme conditions.

## 8. Exposure Controls / Personal Protection

Field	Information
OEL (TWA)	10 mg/m <sup>3</sup> (inhalable); 5 mg/m <sup>3</sup> (respirable, ACGIH)
Engineering Controls	Local exhaust ventilation or general ventilation
PPE	Safety goggles, gloves, P2 dust mask
Environmental Controls	Prevent release to the environment where possible

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## 9. Physical and Chemical Properties

Property	Value
Appearance	Fine white to off-white powder
Odour	Odourless
pH (10% slurry)	8.5 – 9.5
Melting Point	Decomposes >825 °C
Boiling Point	Not applicable
Flash Point	Not applicable
Flammability	Non-flammable
Vapour Pressure	Not applicable
Relative Density	~2.7
Solubility in Water	Practically insoluble (0.001 g/100 mL)
Auto-Ignition Temperature	Not applicable
Decomposition Temperature	>825 °C (releases CO <sub>2</sub> )
Explosive Properties	Not explosive (dust explosion possible at high airborne concentrations)
Oxidizing Properties	None

## 10. Stability and Reactivity

- **Stability:** Stable under recommended storage conditions.
- **Hazardous Reactions:** Reacts with strong acids to release carbon dioxide gas.
- **Incompatible Materials:** Strong acids (e.g., hydrochloric acid, sulfuric acid).
- **Decomposition Products:** Carbon dioxide (CO<sub>2</sub>) at high temperatures.

## 11. Toxicological Information

Test	Result
Oral LD <sub>50</sub> (rat)	>5000 mg/kg (non-toxic)
Skin Irritation	Not irritating under normal conditions
Eye Irritation	May cause mechanical irritation
Sensitization	Not expected
Carcinogenicity	Not classified as carcinogenic by IARC, NTP, or OSHA

## 12. Ecological Information

Organism	Test	Result
Fish	LC <sub>50</sub> (96 h)	>1000 mg/L (expected)
Daphnia	EC <sub>50</sub> (48 h)	>1000 mg/L
Algae	EC <sub>50</sub> (72 h)	>1000 mg/L

**Conclusion:** Not expected to pose environmental hazard. Not bioaccumulative.

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## 13. Disposal Considerations

- **Product Waste:** Dispose as non-hazardous mineral waste. Follow local regulations.
- **Contaminated Packaging:** Clean thoroughly before reuse or disposal.
- **Waste Code (EU):** 01 04 13 – Wastes from processing of non-metals

## 14. Transport Information

Mode	Classification	Remarks
ADR/RID (Road/Rail)	Not regulated	Non-dangerous goods
IMDG (Sea)	Not regulated	Not a marine pollutant
ICAO/IATA (Air)	Not regulated	Not restricted
DOT (USA)	Not regulated	Not hazardous

## 15. Regulatory Information

- **REACH:** Exempt (naturally occurring substance not chemically modified)
- **CLP (EC No. 1272/2008):** Not classified
- **Global Inventories:** Listed or exempt (TSCA, DSL, AICS, IECSC, ENCS, KECI, PICCS, NZIoC)

## 16. Other Information – Calcium Carbonate (CAS 471-34-1)

- **SDS Version:** 1.0 / 2025
- **Date of Preparation:** July 2025
- **Reason for Issue:** Customized SDS for micronized industrial use

### Abbreviations:

CAS – Chemical Abstracts Service

CLP – Classification, Labelling and Packaging

REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals

LD<sub>50</sub> – Median Lethal Dose

EC<sub>50</sub> – Half Maximal Effective Concentration

### Disclaimer:

This SDS is provided for guidance only and does not constitute a product specification. Polymer Add (Thailand) Co., Ltd makes no warranty, express or implied, and assumes no liability for misuse or improper handling. Final responsibility lies with the user.