

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: PTFE (MICRONIZED)

CAS Number: 9002-84-0

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

Field	Information
Product Name	PTFE (MICRONIZED)
CAS Number	9002-84-0
Relevant Identified Uses	Lubricant, processing aid, anti-drip agent, release agent in plastics, elastomers, coatings, inks, powder coatings, and lubricants
Uses Advised Against	Not suitable for use in high-temperature open-air applications without adequate ventilation
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
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
Polytetrafluoroethylene (PTFE)	9002-84-0	-	≥ 98% (micronized)

4. First Aid Measures

- General Advice:** No immediate hazards. If symptoms develop, seek medical attention.
- Inhalation:** Move to fresh air. If thermal decomposition fumes have been inhaled, seek medical attention immediately.
- Skin Contact:** Wash with soap and water. If molten material contacts skin, cool immediately and seek medical advice.

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- **Eye Contact:** Rinse with plenty of water. Seek medical advice if irritation persists.
- **Ingestion:** Rinse mouth. Ingestion is unlikely to be harmful in small amounts.

5. Firefighting Measures

- **Extinguishing Media:** Use water spray, foam, CO₂, or dry chemical as appropriate for surrounding fire.
- **Hazards:** PTFE is non-flammable but decomposes at temperatures above 260 °C, releasing toxic gases including HF, COF₂.
- **Protective Equipment:** Use self-contained breathing apparatus and protective clothing when exposed to decomposition gases.

6. Accidental Release Measures

- **Personal Precautions:** Avoid dust formation. Use appropriate PPE (dust mask, goggles).
- **Environmental Precautions:** Prevent dust from entering drains or waterways.
- **Clean-Up Methods:** Vacuum or sweep up using non-sparking tools. Avoid generating dust. Dispose according to local regulations.

7. Handling and Storage

- **Handling:** Avoid dust generation and inhalation. Do not expose to temperatures >260 °C. Use adequate ventilation.
- **Storage:** Store in cool, dry, well-ventilated area in tightly closed containers.
- **Explosion/Fire Risk:** Dust may form explosive mixture in air under extreme conditions.

8. Exposure Controls / Personal Protection

Field	Information
OEL (TWA)	10 mg/m ³ (total dust – ACGIH), 5 mg/m ³ (respirable fraction)
Engineering Controls	Use local exhaust ventilation to minimize dust exposure
PPE	Dust mask (P2 or equivalent), safety goggles, gloves
Environmental Controls	Avoid uncontrolled release to environment

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9. Physical and Chemical Properties

Property	Value
Appearance	Fine white powder
Odour	Odourless
pH	Not applicable
Melting Point	~327 °C
Boiling Point	Not applicable
Flash Point	Not applicable
Flammability	Not flammable
Vapour Pressure	Negligible
Relative Density	2.1 – 2.3
Solubility in Water	Insoluble
Auto-Ignition Temperature	Not applicable
Decomposition Temperature	>260 °C
Explosive Properties	Dust explosion possible in high concentrations
Oxidizing Properties	None

10. Stability and Reactivity

- **Stability:** Stable at ambient temperature and pressure
- **Hazardous Reactions:** None under normal conditions
- **Incompatible Materials:** Strong alkali metals and finely divided metals at high temperature
- **Decomposition Products:** Carbonyl fluoride (COF_2), hydrogen fluoride (HF), perfluoroisobutylene (PFIB) at temperatures >260 °C

11. Toxicological Information

Test	Result
Oral LD ₅₀ (rat)	>5000 mg/kg (expected)
Skin Irritation	Not irritating
Eye Irritation	Dust may cause mechanical irritation
Sensitization	Not expected
Carcinogenicity	Not classified as carcinogenic (non-fibrous, non-respirable PTFE powder)

12. Ecological Information

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

Conclusion: Inert, non-biodegradable. Not expected to bioaccumulate or harm aquatic life.

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13. Disposal Considerations

- **Product Waste:** Dispose of in accordance with local and national regulations. PTFE waste may be incinerated in permitted facilities.
- **Contaminated Packaging:** Clean and reuse or dispose as per local laws.
- **Waste Code (EU):** 07 02 13 – Waste plastic

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:** Polymer exempt under REACH
- **CLP (EC No. 1272/2008):** Not classified
- **Global Inventories:** Listed or exempt (TSCA, DSL, AICS, IECSC, ENCS, KECI, PICCS, NZIoC)

16. Other Information – PTFE (CAS 9002-84-0)

- **SDS Version:** 1.0 / 2025
- **Date of Preparation:** July 2025
- **Reason for Issue:** First issue for micronized PTFE in harmonized format

Abbreviations:

CAS – Chemical Abstracts Service

CLP – Classification, Labelling and Packaging

REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals

LD₅₀ – Median Lethal Dose

EC₅₀ – Half Maximal Effective Concentration

Disclaimer:

This SDS is provided for guidance on safe use and handling of micronized PTFE. It is not a product specification. Polymer Add (Thailand) Co., Ltd makes no warranties, expressed or implied, and assumes no liability for misuse. Final responsibility lies with the end user.