

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: POLYPRO MICROBLEND P80

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

Field	Information
Product Name	POLYPRO MICROBLEND P80
Synonyms	PP additive pre-blend; PP nucleating & stabilization blend
Recommended Uses	Micronized additive blend for polypropylene compounding/masterbatches (nucleation, stiffness/HDT, processing & long-term stabilization).
Uses advised against	Uses other than polymer processing/compounding.
Manufacturer	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(GHS)	Not classified as a hazardous mixture under GHS/CLP based on available data. Dust may cause mechanical irritation to eyes/respiratory tract.
Label elements	No pictogram or signal word required.
Other Hazards	Fine powder can form airborne dust; avoid inhalation. Non-asbestiform talc and mica present (mineral powders). Not expected to present acute systemic toxicity at intended industrial use levels

3. Composition/Information on Ingredients

Ingredient	CAS No.	Function	Typical % (w/w)
Micronized Talc	14807-96-6	Nucleation, stiffness, HDT	40.00
Micronized Mica	12001-26-2	Flexural strength, dimensional stability	25.00
Sodium Benzoate (micronized)	532-32-1	Nucleating agent	15.00
AO-1010 (pentaerythritol tetrakis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate])	6683-19-8	Antioxidant (long-term)	1.00
AO-168 (tris(2,4-di-tert-butylphenyl) phosphite)	31570-04-4	Antioxidant (processing)	0.50

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Calcium Stearate (micronized)	1592-23-0	Lubricant	0.50
Carrier base: Talc	14807-96-6	Matrix filler for dispersion	18.00

Carrier base can alternatively be CaCO_3 or mica per product variant.

4. First Aid Measures

- **Inhalation:** Move to fresh air. Rinse mouth, blow nose gently. Seek medical advice if symptoms persist.
- **Eye contact:** Rinse cautiously with water for several minutes; remove contact lenses if present/easy. Get medical attention if irritation persists.
- **Skin contact:** Wash with soap and water. Use skin cream for dryness.
- **Ingestion:** Rinse mouth; give water to drink. No acute toxicity expected from small amounts; seek medical advice if unwell.
- **Most important symptoms:** Mechanical irritation of eyes/airways; cough/sneezing from dust.

5. Firefighting Measures

- **Suitable media:** Water spray, dry chemical, foam, CO_2 .
- **Specific hazards:** Predominantly mineral; organic components can burn and produce irritating fumes/smoke (carbon oxides, phosphorus oxides).
- **Protective equipment:** Self-contained breathing apparatus for large fires; avoid dust clouds.

6. Accidental Release Measures

- **Personal precautions:** Avoid breathing dust; ensure adequate ventilation; use PPE (Section 8).
- **Spill cleanup:** Avoid dry sweeping. Vacuum with HEPA or use damp methods; collect in labeled containers. Prevent release to drains.
- **Environmental precautions:** No special hazard expected; avoid significant releases.

7. Handling and Storage

- **Handling:** Minimize dust generation; use local exhaust. Ground equipment if transferring pneumatically. Follow good housekeeping to prevent dust accumulation.
- **Storage:** Keep in tightly closed original packaging, cool/dry area $\leq 30^\circ\text{C}$, RH $< 60\%$. Protect from moisture.
- **Incompatible materials:** Strong oxidizers. Avoid prolonged exposure to strong acids/alkalis and high humidity.

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8. Exposure Controls / Personal Protection

Field	Information
OEL (dust)	<ul style="list-style-type: none">Nuisance/PNOS dust: inhalable 10 mg/m³; respirable 3 mg/m³ (typical guidance—observe local OELs).Talc (non-asbestiform) and mica may have stricter respirable dust OELs in some jurisdictions—comply with local regulations.
Engineering Controls	Enclose/ventilate dusty steps; LEV at mixers/feeders; dust-tight transfer where feasible.
PPE	<ul style="list-style-type: none">Respiratory: Disposable P2/P95 (or better) where dust exceeds OEL or during dusty tasks.Eyes/face: Safety glasses with side shields; goggles during powder charging.Skin: Work gloves; coveralls to avoid contamination.Hygiene: Wash hands; do not eat/drink/smoke in processing areas.

9. Physical and Chemical Properties

Property	Value
Appearance	Fine white to grayish powder
Odour	slight characteristic odour or none.
Particle Size	D50 < 10 µm (typical).
Moisture Content	<0.5% (as supplied).
Bulk Density	~0.45–0.65 g/cm ³ .
Melting range	Not applicable to mineral matrix; organic components soften >50–200 °C.
Solubility	Insoluble (mineral portion), sodium benzoate is water-soluble but bound in the blend.
Flammability	Not readily flammable as a mixture; organic fraction is combustible.
Stability in melt	Excellent compatibility in PP.

10. Stability and Reactivity

- Reactivity:** Not reactive under normal conditions.
- Chemical stability:** Stable when stored as directed.
- Conditions to avoid:** Excessive heat, open flames, ignition sources for accumulated dust; high humidity.
- Incompatible materials:** Strong oxidizing agents; strong acids/alkalis may degrade antioxidants.
- Hazardous decomposition:** Smoke, CO/CO₂, phenolic/organic vapors, phosphorus oxides under fire.

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11. Toxicological Information

Test	Result
Acute Toxicity	Low—mixture not expected to be acutely toxic.
Irritation	Dust may cause mechanical eye/respiratory irritation; prolonged skin contact may cause dryness.
Sensitization	No data indicating sensitization for mixture.
Carcinogenicity	Talc (non-asbestiform) not classed as carcinogenic; avoid respirable dust exposure.
STOT (single/repeated)	Excessive long-term inhalation of respirable mineral dusts may affect lungs—use exposure controls.
Aspiration hazard	Not applicable (solid).

12. Ecological Information

- **Ecotoxicity:** Not expected to be hazardous at mixture levels; largely inorganic/insoluble.
- **Persistence/degradability:** Mineral components are persistent; organic antioxidants may degrade slowly.
- **Bioaccumulation:** Low potential expected in mixture form.
- **Mobility in soil:** Low (insoluble particulates).
- **Other adverse effects:** None known.

13. Disposal Considerations

- **Product/containers:** Dispose of as non-hazardous industrial waste unless contaminated; recycle packaging where possible. Follow local/regional regulations. Avoid uncontrolled release and dusting.

14. Transport Information

Mode	Remarks
UN Classification	Not regulated as dangerous goods (ADR/IMDG/IATA).
Special precautions	Keep bags intact; protect from moisture.
Environmental hazards	Not a marine pollutant.

15. Regulatory Information

- **GHS/CLP:** Mixture not classified as hazardous based on available data.
- **Chemical inventories:** Ingredients are widely used industrial substances; confirm listing/tonnage band per jurisdiction (e.g., Thailand, TSCA, REACH) before placing on specific markets.
- **Other compliance:** Intended for industrial polymer processing; users remain responsible for assessing food-contact or application-specific regulatory suitability.

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16. Other Information

Document Ref: POLYPRO MICROBLEND P80

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Prepared by: Polymer Add Thailand

Intended application & dosage: Use at ~1.0–4.0 wt% in PP; 2.0–3.0 wt% typical for nucleation-dominant applications. Compatible with talc-filled PP, glass-reinforced PP, TPO.

Packaging & storage guidance: Standard 10 kg PE-lined kraft bags; optional 5 kg HDPE; 500 kg/pallet; store ≤30 °C, RH <60%.

Abbreviations: OEL = occupational exposure limit; LEV = local exhaust ventilation; PNOS = Particles Not Otherwise Specified; PP = polypropylene; TPO = thermoplastic polyolefin; HDT = heat deflection temperature.

Disclaimer: Information is based on current knowledge and the product's Technical Data Sheet; it describes safety requirements but does not guarantee properties. Users must ensure suitability for their specific process and comply with local regulations.