

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: FLEXOINK MICROBLEND W32

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

Field	Information
Product Name	FLEXOINK MICROBLEND W32
Relevant Identified Uses	Micronized additive blend for water-based flexographic ink formulations
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 (GHS)	Not classified as hazardous GHS
Label Elements	No hazard pictograms or signal words required
Other Hazards	Fine powder may cause mechanical eye and respiratory irritation Risk of dust accumulation in poorly ventilated spaces

3. Composition/Information on Ingredients

Substance	CAS Number	Function	% w/w
Micronized PE Wax	9002-88-4	Rub resistance and slip	50%
Synthetic Amide Wax	68953-58-2	Mar resistance and water repellency	15%
Micronized PTFE	9002-84-0	Slip, abrasion resistance	10%
Dispersible Fumed Silica	112945-52-5	Flow control, anti-caking	2%
Polyether-Modified Silicone	27306-78-1	Anti-blocking, fingerprint resistance	8%
Acrylic Flow Modifier	9011-87-4	Pigment orientation, film leveling	5%
Moisture Buffer (optional)	471-34-1 / 112926-00-8	Clumping prevention	10%

4. First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if symptoms develop.
- **Skin Contact:** Wash thoroughly with soap and water.
- **Eye Contact:** Rinse cautiously with water for several minutes. Seek medical advice if irritation persists.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical attention if symptoms appear.

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5. Firefighting Measures

- **Extinguishing Media:** Dry chemical, foam, water spray, CO₂
- **Hazards:** May emit CO, CO², and fluorinated compounds during combustion
- **Protective Equipment:** Self-contained breathing apparatus and protective gear

6. Accidental Release Measures

- **Personal Precautions:** Avoid generating dust. Use PPE.
- **Environmental Precautions:** Prevent entry into water bodies or drains.
- **Clean-up Methods:** Collect using non-sparking tools or vacuum equipped with HEPA filter. Avoid dry sweeping.

7. Handling and Storage

- **Handling:** Avoid dust formation. Use in well-ventilated areas.
- **Storage:** Store in tightly closed containers in a dry, cool, and well-ventilated place. Avoid moisture and direct sunlight.

8. Exposure Controls / Personal Protection

Field	Information
Exposure Limits	<ul style="list-style-type: none">• Micronized PTFE: Refer to national standards• PE Wax and Amide Wax: No established exposure limits
Engineering Controls	Provide adequate ventilation and dust control
Personal Protection	<ul style="list-style-type: none">• Respiratory: Dust mask (P2/N95)• Eyes: Safety goggles• Skin: Gloves and protective clothing

9. Physical and Chemical Properties

Property	Value
Appearance	White to off-white free-flowing powder
Odour	Neutral to faint waxy
Melting Point	95 – 130 °C
Flammability	Dust may be combustible in air
Bulk Density	0.30 – 0.42 g/cm ³
Solubility in Water	Insoluble
Dispersibility	Excellent in water-based resin systems
pH Stability	Compatible with pH 7–9 ink systems
Particle Size	D100 < 20 µm; D50 = 5–8 µm

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10. Stability and Reactivity

- **Stability:** Stable under recommended conditions
- **Conditions to Avoid:** Extreme heat, open flames, strong oxidizing agents
- **Hazardous Reactions:** None known
- **Decomposition Products:** CO, CO², hydrocarbons, fluorinated compounds

11. Toxicological Information

Test	Result
Acute Toxicity	No known significant effects for the blend
Skin/ Eye Contact	May cause mild mechanical irritation
Chronic Effects	Not expected under normal use
Inhalation	Dust may cause respiratory tract irritation

12. Ecological Information

- **Eco toxicity:** Not expected to be harmful in aquatic environments
- **Persistence/Degradability:** Components are not readily biodegradable
- **Bioaccumulation Potential:** Low
- **Mobility in Soil:** Very low due to insolubility

13. Disposal Considerations

- **Waste Treatment Methods:** Dispose of in accordance with local/national regulations
- **Contaminated Packaging:** Clean containers may be recycled or disposed of as non-hazardous industrial waste

14. Transport Information

Mode	Classification
UN Number	Not regulated
Transport Hazard Class	Not applicable
Packing Group	Not applicable
Marine Pollutant	No
Special Precautions	Avoid packaging damage and dust release during transport

15. Regulatory Information

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- **Chemical Inventory:** All ingredients are listed or exempt on major inventories (e.g., TSCA, REACH)
- **Regulatory Use:** Suitable for non-direct food contact packaging applications
- **Labelling Requirements:** Not applicable under current regulations

16. Other Information – FLEXOINK MICROBLEND W32

- **SDS Version:** 1.0 / 2025
- **Date of Preparation:** July 2025
- **Reason for Issue:** First SDS issued for micronized technical grade
- **Intended Use:** Additive for water-based flexographic inks
- **Training Advice:** Personnel should be trained in handling micronized powders

Disclaimer:

This SDS is provided for industrial handling and transportation purposes only. It does not serve as a product specification or guarantee. Polymer Add (Thailand) Co., Ltd shall not be held liable for misuse or mishandling. Final responsibility lies with the user.