

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: SCREENINK MICROBLEND S29

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

| Field | Information |
|--------------------------|---------------------------------------------------------------------------------------|
| Product Name | SCREENINK MICROBLEND S29 |
| Relevant Identified Uses | Micronized additive for screen printing inks (solvent, UV-curable, hybrid) |
| Supplier | Polymer Add (Thailand) Co., Ltd |
| Office Address | 106, Chalarempriakiat, Lor 9, Soi 22, Yak 5, Nongbon, Prawet, Bangkok, Thailand 10250 |
| Factory Address | 188/3, Moo 8, Bangpu Mai, Muang Samut Prakan, Samutprakan, Thailand 10280 |
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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 particulate may cause mechanical eye or respiratory irritation May form combustible dust-air mixtures in confined areas |

3. Composition/Information on Ingredients

| Substance | CAS Number | Function | % w/w |
|-------------------------------|-------------|------------------------------------------|-------|
| Micronized PE Wax | 9002-88-4 | Slip, rub resistance, gloss control | 40% |
| N,N'-Ethylene bis(stearamide) | 110-30-5 | Mar resistance, surface toughness | 15% |
| Micronized PTFE | 9002-84-0 | Ultra-low friction, anti-scuff | 10% |
| Glycerol Monostearate | 31566-31-1 | Internal slip, anti-blocking | 10% |
| PMMA-based Copolymer | 9011-87-4 | Film leveling, pigment orientation | 10% |
| Fumed Silica (Hydrophobic) | 112945-52-5 | Flow aid, anti-caking | 2% |
| Silicone Wax Powder | 68937-54-2 | Slip enhancement, fingerprint resistance | 5% |
| Calcium Carbonate | 471-34-1 | Moisture buffer, storage stability | 8% |

4. First Aid Measures

- **Inhalation:** Remove to fresh air. Seek medical attention if discomfort occurs.
- **Skin Contact:** Wash thoroughly with soap and water.
- **Eye Contact:** Rinse with clean water for at least 15 minutes. Get medical advice if irritation persists.

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- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical attention if symptoms occur.

5. Firefighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, CO²
- **Hazards:** Dust may ignite under specific conditions in enclosed areas
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective gear

6. Accidental Release Measures

- **Personal Precautions:** Avoid dust formation. Use personal protective equipment.
- **Environmental Precautions:** Avoid discharge into drains or waterways.
- **Methods for Cleaning:** Collect with non-sparking vacuum or wet method. Avoid dry sweeping.

7. Handling and Storage

- **Handling:** Avoid creating airborne dust. Use grounded equipment. Ensure adequate ventilation.
- **Storage:** Store in sealed packaging in a cool, dry location. Avoid exposure to moisture and sunlight.
- **Shelf Life:** 12 months in unopened packaging

8. Exposure Controls / Personal Protection

| Field | Information |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exposure Limits | <ul style="list-style-type: none">• General dust (inhalable): ACGIH TLV = 10 mg/m³• PTFE and other components: No specific limits |
| Engineering Controls | Use local exhaust ventilation |
| Personal Protection | <ul style="list-style-type: none">• Respiratory Protection: Dust mask (P2/N95)• Eye Protection: Safety goggles• Skin Protection: Gloves and long-sleeved garments |

9. Physical and Chemical Properties

| Property | Value |
|---------------------|---------------------------------------------|
| Appearance | White to off-white micronized powder |
| Odour | Neutral to faint waxy |
| Melting Point | 95 – 130 °C |
| Bulk Density | 0.30 – 0.42 g/cm ³ |
| Solubility in Water | Insoluble |
| Dispersibility | Excellent in solvent and UV-curable systems |
| Particle Size | D100 < 20 µm, D50 = 5 – 8 µm |

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10. Stability and Reactivity

- **Chemical Stability:** Stable under normal storage and handling conditions
- **Conditions to Avoid:** Open flame, heat, electrostatic discharge
- **Incompatible Materials:** Strong oxidizers
- **Hazardous Decomposition Products:** CO, CO², hydrocarbons, fluorinated compounds

11. Toxicological Information

| Test | Result |
|-------------------|------------------------------------------------------|
| Acute Toxicity | Low expected toxicity under normal use |
| Skin/ Eye Contact | Dust may irritate eyes, skin, and respiratory system |
| Chronic Effects | No known chronic toxicity under recommended usage |
| Inhalation | Not expected |

12. Ecological Information

- **Ecotoxicity:** Not expected to pose significant hazard to aquatic life
- **Persistence/Degradability:** Not readily biodegradable; mostly inert
- **Bioaccumulation:** Not expected
- **Mobility in Soil:** Very low

13. Disposal Considerations

- **Waste Treatment:** Dispose of according to local/national regulations as inert solid waste
- **Packaging Disposal:** Clean and recycle or dispose of in accordance with regulations

14. Transport Information

| Mode | Classification |
|------------------------|----------------------------------------|
| UN Number | Not regulated |
| Transport Hazard Class | Not applicable |
| Packing Group | Not applicable |
| Environmental Hazards | None |
| Special Precautions | Minimize dust during loading/unloading |

15. Regulatory Information

- **Inventory Listing:** All components are listed or exempt under TSCA, REACH, DSL, etc.
- **Regulatory Compliance:** Meets general industrial ink formulation standards

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- **Restrictions:** Not for use in direct food contact or pharmaceutical packaging

16. Other Information – SCREENINK MICROBLEND S29

- **SDS Version:** 1.0 / 2025
- **Date of Preparation:** July 2025
- **Reason for Issue:** First SDS issued for micronized technical grade
- **Recommended Use:** For screen printing inks (UV, solvent, hybrid)
- **Training Advice:** Ensure operators are trained in handling fine powders and dust control.

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.