

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: GRAVUREINK MICROBLEND G45

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

Field	Information
Product Name	GRAVUREINK MICROBLEND G45
Relevant Identified Uses	Micronized additive for solvent- and water-based gravure inks
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
Mobile (Thai)	0804531391
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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 dust may cause mechanical irritation to eyes or lungs Combustible dust potential when dispersed in air

3. Composition/Information on Ingredients

Substance	CAS Number	Function	% w/w
Micronized PE Wax	9002-88-4	Slip, rub resistance, gloss control	42%
Synthetic Amide Wax	68953-58-2	Mar resistance, anti-blocking	16%
Micronized PTFE	9002-84-0	Scuff resistance, ultra-low friction	11%
Glycerol Monostearate	31566-31-1	Slip and flow enhancer	11%
Acrylic Processing Aid	9011-87-4	Pigment holdout and film uniformity	8%
Polyether-Modified Silicone Wax	27306-78-1	Slip and fingerprint resistance	5%
Fumed Silica (R972 type)	112945-52-5	Anti-caking and flow aid	2%

4. First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if symptoms occur.
- **Skin Contact:** Wash with soap and water. Seek medical advice if irritation persists.
- **Eye Contact:** Rinse with plenty of water. Consult a physician if irritation continues.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical attention if necessary.

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5. Firefighting Measures

- **Extinguishing Media:** Water mist, dry chemical, foam, CO₂
- **Hazards:** May form combustible dust clouds in air; thermal decomposition may emit CO, CO₂, and fluorinated gases
- **Protection:** Use full protective gear and self-contained breathing apparatus

6. Accidental Release Measures

- **Personal Precautions:** Avoid dust inhalation. Use PPE and ventilate area.
- **Environmental Precautions:** Prevent from entering drains or surface waters
- **Clean-Up Methods:** Use non-sparking tools or vacuum (HEPA filter); avoid dry sweeping

7. Handling and Storage

- **Handling:** Avoid dust generation. Use grounding and bonding procedures
- **Storage:** Store in cool, dry area. Avoid moisture, sunlight, and high humidity. Keep container tightly sealed.

8. Exposure Controls / Personal Protection

Field	Information
Exposure Limits	<ul style="list-style-type: none">• PTFE: Refer to national standards• Other components: No established occupational limits
Engineering Controls	Provide adequate ventilation and dust control
Personal Protection	<ul style="list-style-type: none">• Respiratory: Dust mask or P2/N95 respirator• Eyes: Safety goggles• Skin: Protective gloves and clothing

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 water-based systems
Particle Size	D100 < 20 µm; D50 = 5–8 µm

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10. Stability and Reactivity

- **Chemical Stability:** Stable under normal conditions
- **Conditions to Avoid:** High heat, open flames, electrostatic discharge
- **Incompatible Materials:** Strong oxidizers
- **Decomposition Products:** CO, CO₂, hydrocarbons, fluorinated compounds

11. Toxicological Information

Test	Result
Acute Toxicity	Low expected toxicity based on components
Irritation	Dust may cause mechanical irritation to eyes and respiratory tract
Chronic Effects	No known significant chronic hazards under recommended use
Sensitization	Not expected

12. Ecological Information

- **Eco toxicity:** No acute aquatic toxicity expected
- **Persistence and Degradability:** Components are not readily biodegradable
- **Bioaccumulation Potential:** Low
- **Mobility:** Very low due to water insolubility

13. Disposal Considerations

- **Waste Disposal:** Dispose in accordance with local regulations
- **Contaminated Packaging:** May be recycled or treated as 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	Prevent damage to containers and avoid dust release

15. Regulatory Information

- **Chemical Inventories:** All ingredients are listed or exempt under TSCA, REACH, DSL, etc.
- **Use Restrictions:** For industrial use only. Not for food or medical applications

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16. Other Information – GRAVUREINK MICROBLEND G45

- **SDS Version:** 1.0 / 2025
- **Date of Preparation:** July 2025
- **Reason for Issue:** First SDS issued for micronized technical grade
- **Recommended Use:** For gravure printing inks and overprint varnishes
- **Training Advice:** Train staff in safe handling of fine 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.

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