

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: PVC-MICROBLEND SB 5080

High-Gloss, Flow-Enhancing Additive System for Rigid PVC.

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

| Field | Information |
|----------------------|---|
| Product Name | PVC-MICROBLEND SB 5080 |
| Synonyms | High-Gloss, Flow-Enhancing Additive System for Rigid PVC. |
| Recommended Uses | Additive system for rigid PVC applications – improves melt flow, gloss, and processing stability. |
| Uses advised against | Non-polymer or direct consumer applications. |
| Manufacturer | Polymer Add (Thailand) Co., Ltd |
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2. Hazards Identification

| Field | Description |
|---------------------|--|
| Classification(GHS) | Not classified as hazardous. |
| Main hazards | Dust may irritate eyes, skin, and respiratory tract. |
| Label elements | No pictogram or signal word required. |
| Other Hazards | Fine dust may accumulate; avoid creating airborne dust clouds. |

3. Composition/Information on Ingredients

| Component | CAS No. | Function | Typical % (w/w) |
|---------------------------------|------------|------------------------------|-----------------|
| Calcium Carbonate (micronized) | 471-34-1 | Filler, dimensional control | 30.00 |
| Micronized PE Wax | 9002-88-4 | External lubricant | 20.00 |
| Sucrose Benzoate | 115-70-8 | Gloss enhancer, internal aid | 15.00 |
| Glycerol Monostearate (GMS 90%) | 31566-31-1 | Internal lubricant | 10.00 |
| Acrylic Processing Aid (ACR) | 25852-37-3 | Fusion promoter | 5.00 |
| Micronized Stearic Acid | 57-11-4 | Fusion aid | 3.00 |
| Zinc Stearate | 557-05-1 | Lubricant, stabilizer | 2.00 |
| Hydrophobic Fumed Silica (R972) | 68909-20-6 | Flow control, anti-settling | 1.00 |

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4. First Aid Measures

- **Inhalation:** Move to fresh air; seek medical advice if irritation persists.
- **Skin contact:** Wash thoroughly with soap and water.
- **Eye contact:** Rinse with water for several minutes; remove contact lenses if present.
- **Ingestion:** Rinse mouth; drink water; no acute toxicity expected, seek advice if unwell.

5. Firefighting Measures

- **Suitable extinguishing media:** Water spray, dry powder, CO₂, foam.
- **Hazards in fire:** Combustion of organic components may produce CO, CO₂, hydrocarbons, zinc oxide fumes.
- **Protective equipment:** Self-contained breathing apparatus recommended.

6. Accidental Release Measures

- **Personal precautions:** Avoid creating dust; wear PPE. Ensure ventilation.
- **Environmental precautions:** Prevent uncontrolled discharge to drains.
- **Cleanup methods:** Vacuum (HEPA filter) or damp sweep; avoid dry sweeping.

7. Handling and Storage

- **Handling:** Avoid dust generation; use local exhaust ventilation.
- **Storage:** Store in cool, dry, covered environment in sealed packaging.
- **Shelf life:** 12 months in original sealed packaging.

8. Exposure Controls / Personal Protection

| Field | Information |
|--|--|
| Occupational exposure limits (guidance): | <ul style="list-style-type: none">• Nuisance dust: 10 mg/m³ (inhalable), 3 mg/m³ (respirable).• Calcium carbonate and titanium dioxide (if present in blend variations): follow local OELs. |
| Engineering Controls | Local exhaust ventilation. |
| PPE | <ul style="list-style-type: none">• Respiratory: P2/P95 mask during dusty operations.• Eyes: Safety glasses/goggles.• Hands: Gloves.• Clothing: Protective workwear. |

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9. Physical and Chemical Properties

| Property | Value |
|----------------------|-------------------------------|
| Appearance | Fine off-white powder |
| Odour | Neutral to mild (waxy/fatty). |
| Particle Size (D100) | <20 µm |
| Moisture Content | < 0.5% |
| Bulk Density | 0.45–0.60 g/cm ³ |
| Compatibility | Rigid PVC systems |

10. Stability and Reactivity

- **Stability:** Stable under recommended storage.
- **Conditions to avoid:** Excessive heat, sparks, humidity.
- **Incompatible materials:** Strong oxidizers and strong acids.
- **Decomposition products:** CO, CO₂, hydrocarbons, metal oxides.

11. Toxicological Information

| Test | Result |
|-----------------|---|
| Acute Toxicity | Low – not expected at mixture levels. |
| Irritation | Dust may cause eye/airway irritation. |
| Sensitization | Not expected |
| Chronic Effects | Long-term inhalation of respirable dust may affect lungs. |

12. Ecological Information

- **Ecotoxicity:** Not classified as hazardous.
- **Persistence/degradability:** Stearates and sucrose benzoate partially biodegradable; PE wax and acrylic resin persistent; silica inert.
- **Bioaccumulation:** Low potential.
- **Mobility:** Low – insoluble powders.

13. Disposal Considerations

- **Product/packaging:** Dispose as non-hazardous industrial waste in accordance with local regulations. Packaging recyclable.

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14. Transport Information

| Mode | Remarks |
|---------------------|--|
| UN Classification | Not classified as dangerous goods under ADR/IMDG/IATA. |
| Special precautions | Prevent dust release during transport. |

15. Regulatory Information

- **Classification:** Not hazardous under GHS.
- **Inventories:** Ingredients are listed on major international chemical inventories.
- **Application note:** Industrial additive; user must confirm compliance for specific restricted applications (e.g., food-contact).

16. Other Information

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Prepared by: Polymer Add Thailand

References: Technical Data Sheet BLACKMB MICROBLEND B45, supplier raw material SDS.

Recommended dosage: 0.5–2.0 phr in rigid PVC formulations (depending on gloss/flow requirements).

Packaging: 25 kg PE-lined kraft bags or 500 kg big bags.

Disclaimer: Information is based on current knowledge and provided for safe handling. Performance must be verified by user in end-use.

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.