

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: SB-PET01-R

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

| Field | Information |
|----------------------|---------------------------------------------------------------------------------------|
| Product Name | SB-PET01-R Micronized Additive Blend for PET. |
| Recommended Uses | Nucleating & optical additive blend for PET compounding. |
| Uses advised against | Non-polymer or consumer applications. |
| 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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| Email | contact@polymeradd.co.th |

2. Hazards Identification

| Field | Description |
|---------------------|---------------------------------------------------------------------------------------|
| Classification(GHS) | Not classified as hazardous. |
| Main hazards | Dust may irritate eyes and airways; product is slightly hygroscopic. |
| Label elements | No pictogram or signal word required |
| Other Hazards | Fine powder – risk of dust accumulation/explosion in extreme airborne concentrations. |

3. Composition/Information on Ingredients

| Component | CAS No. | Function | Typical % (w/w) |
|-----------------------------|------------|-----------------------------------------------|-----------------|
| Sodium Benzoate | 532-32-1 | Nucleating agent; accelerates crystallization | 55.0% |
| Micronized Silica | 7631-86-9 | Optical filler; dimensional stability | 30.0% |
| Glycerol Monostearate (GMS) | 31566-31-1 | Dispersant, flow enhancer | 15.0% |

4. First Aid Measures

- **Inhalation:** Move to fresh air; rinse mouth; seek medical advice if symptoms persist.
- **Skin contact:** Wash with soap and water.
- **Eye contact:** Rinse thoroughly with water for several minutes. Remove contact lenses.

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- **Ingestion:** Rinse mouth, give water to drink. No acute toxicity expected; seek medical attention if unwell.
- **Symptoms:** Temporary irritation (eyes/airways), mild cough, sneezing.

5. Firefighting Measures

- **Suitable media:** Water spray, CO₂, dry powder, foam.
- **Hazards in fire:** Organic fraction (GMS, sodium benzoate) may burn and produce CO, CO₂, smoke. Silica is inert.
- **Protective equipment:** Self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures

- **Personal precautions:** Avoid breathing dust; wear PPE; ventilate area.
- **Environmental precautions:** Prevent uncontrolled release to watercourses.
- **Cleanup methods:** Vacuum (HEPA filter) or damp sweep; avoid dry sweeping to limit dust.

7. Handling and Storage

- **Handling:** Use local exhaust ventilation; minimize dust; ground transfer equipment.
- **Storage:** Store sealed below 30 °C; protect from moisture.
- **Special note:** Pre-dry before PET compounding to avoid hydrolysis.
- **Shelf life:** 12 months in recommended conditions.

8. Exposure Controls / Personal Protection

| Field | Information |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OEL guidance (general dust) | 10 mg/m ³ (inhalable), 3 mg/m ³ (respirable). |
| Engineering Controls | Local exhaust ventilation at blending/loading points |
| PPE | <ul style="list-style-type: none">• Respiratory: P2/P95 dust mask.• Eyes: Safety glasses/goggles.• Skin: Gloves, protective clothing |

9. Physical and Chemical Properties

| Property | Value |
|----------------------|---------------------------------------------------------|
| Appearance | Fine white to off-white powder |
| Odour | Mild fatty (from GMS) |
| Melting Range | Sodium benzoate ~410 °C; silica >1000 °C; GMS ~55–65 °C |
| Particle Size (D100) | D100 < 20 µm |
| Moisture Content | < 0.5% |
| Bulk Density | ~0.45–0.60 g/cm ³ |

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| | |
|------------|-------------------------------------------------------------------------------|
| Solubility | Sodium benzoate – water soluble; silica – insoluble; GMS – sparingly soluble. |
|------------|-------------------------------------------------------------------------------|

10. Stability and Reactivity

- **Stability:** Stable under normal handling/storage.
- **Conditions to avoid:** Excessive heat, humidity, ignition sources.
- **Incompatible materials:** Strong oxidizers, strong acids/alkalis.
- **Decomposition products:** CO, CO₂, organic vapors when burned.

11. Toxicological Information

| Test | Result |
|-----------------|--------------------------------------------------------------------------|
| Acute Toxicity | Low acute toxicity. |
| Irritation | Dust may cause mechanical irritation of eyes/airways. |
| Sensitization | Not expected. |
| Carcinogenicity | Sodium benzoate and GMS not classified; amorphous silica not classified. |
| Chronic Effects | Long-term inhalation of respirable dust may affect lungs. |

12. Ecological Information

- **Ecotoxicity:** Not classified as environmentally hazardous.
- **Persistence:** Sodium benzoate biodegradable; GMS biodegradable; silica persistent but inert.
- **Bioaccumulation:** Low potential.
- **Mobility:** Low – mostly insoluble particulate.

13. Disposal Considerations

- **Product/packaging:** Dispose of as non-hazardous industrial waste under local regulations. Packaging recyclable where facilities exist.

14. Transport Information

| Mode | Remarks |
|-----------------------|--------------------------------------------|
| UN Classification | Not dangerous goods under ADR/IMDG/IATA. |
| Transport Precautions | Keep packaging intact, avoid dust release. |

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15. Regulatory Information

- **Classification:** Not hazardous under GHS.
- **Chemical inventories:** Ingredients listed on major inventories (REACH, TSCA, etc.).
- **Application note:** Industrial additive only; regulatory compliance for food-contact to be confirmed by user.

16. Other Information

Document Ref: SB-PET01-R Micronized Additive Blend for PET.

Issue Date: July 2025

Prepared by: Polymer Add Thailand

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

Recommended dosage: Typically, 0.3–0.8 wt% in PET compounding.

Packaging: 10–15 kg PE bags with liner, 25 kg HDPE drums, custom packs on request.

Disclaimer: Information is based on current knowledge and intended for safe handling.

Performance suitability for end applications must be verified by the user.

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.