

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: POLYETHGUARD MICROBLEND E65

Micronized Additive Blend for Polyethylene (PE) Film, Sheet & Injection Molding.

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

Field	Information
Product Name	POLYETHGUARD MICROBLEND E65
Synonyms	Micronized Additive Blend for Polyethylene (PE) Film, Sheet & Injection Molding.
Recommended Uses	Additive for LDPE, LLDPE, and HDPE formulations – anti-blocking, slip, barrier, and stabilization.
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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2. Hazards Identification

Field	Description
Classification(GHS)	Not classified as hazardous.
Main hazards	Dust may cause mechanical irritation to eyes/airways.
Label elements	No pictogram required.
Other Hazards	Fine powder can form airborne dust; handle with proper dust control.

3. Composition/Information on Ingredients

Component	CAS No.	Function	Typical % (w/w)
Micronized Talc	14807-96-6	Anti-blocking, nucleation, stiffness	40.00
Micronized Mica	12001-26-2	Barrier & dimensional stability	25.00
Calcium Carbonate (fine grade)	471-34-1	Cost reduction, impact resistance	20.00
Glycerol Monostearate (GMS 90%)	31566-31-1	Dispersion aid, anti-blocking	3.00
Micronized PE Wax	9002-88-4	Slip, mold release, anti-blocking	2.00
AO-1010	6683-19-8	Long-term antioxidant	0.80
AO-168	31570-04-4	Processing antioxidant	0.70
Hydrophobic Silica (R972)	67762-90-7	Flow aid, anti-caking	0.50

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4. First Aid Measures

- **Inhalation:** Move to fresh air; seek medical attention if symptoms persist.
- **Skin contact:** Wash with soap and water.
- **Eye contact:** Rinse cautiously with water for several minutes; seek medical advice if irritation persists.
- **Ingestion:** Rinse mouth; give water to drink. No acute toxicity expected.

5. Firefighting Measures

- **Suitable extinguishing media:** Water spray, CO₂, foam, dry chemical.
- **Hazards in fire:** Combustion of organics may release CO, CO₂, smoke, and irritating fumes.
- **Protective equipment:** Self-contained breathing apparatus recommended.

6. Accidental Release Measures

- **Personal precautions:** Avoid breathing dust; ensure ventilation; wear PPE.
- **Environmental precautions:** Prevent uncontrolled release to drains.
- **Cleanup methods:** Vacuum with HEPA or sweep carefully. Avoid dry sweeping.

7. Handling and Storage

- **Handling:** Minimize dust; ensure LEV. Avoid sparks/ignition near powder clouds.
- **Storage:** Store ≤30 °C, RH <60%, in sealed packaging, cool/dry ventilated area.
- **Shelf life:** 24 months from production date.

8. Exposure Controls / Personal Protection

Field	Information
Occupational exposure limits (dust)	10 mg/m ³ (inhalable), 3 mg/m ³ (respirable).
Engineering Controls	Local exhaust ventilation at mixing/loading points.
PPE	<ul style="list-style-type: none">• Respiratory: P2/P95 mask when dust present.• Eyes: Safety glasses or goggles.• Hands: Gloves.• Clothing: Work coveralls.

9. Physical and Chemical Properties

Property	Value
Appearance	Fine white to pale gray powder
Odour	None to mild (waxy/fatty).
Stability in melt	Excellent dispersion with PE resins.

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Particle Size (D100)	<10 µm
Moisture Content	< 0.5%
Bulk Density	0.40–0.55 g/cm ³
Compatibility	LDPE, LLDPE, HDPE

10. Stability and Reactivity

- **Stability:** Stable under recommended handling/storage.
- **Conditions to avoid:** Excessive heat, sparks, static discharge, humidity.
- **Incompatible materials:** Strong oxidizers.
- **Decomposition products:** CO, CO₂, hydrocarbons under fire.

11. Toxicological Information

Test	Result
Acute Toxicity	Not expected at mixture level.
Irritation	Dust may cause mechanical eye/respiratory irritation.
Sensitization	Not expected
Chronic Effects	Prolonged exposure to respirable dust may affect lungs

12. Ecological Information

- **Ecotoxicity:** Not classified as hazardous.
- **Persistence/degradability:** Minerals are persistent; organic components degrade slowly.
- **Bioaccumulation:** Low potential.
- **Mobility:** Insoluble powders; low mobility.

13. Disposal Considerations

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

14. Transport Information

Mode	Remarks
UN Classification	Not classified as dangerous goods (ADR/IMDG/IATA).
Special precautions	Keep packaging intact, prevent dust release.

15. Regulatory Information

- **Classification:** Not hazardous under GHS.
- **Inventories:** All major components listed on international inventories.

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- **Application note:** For industrial use in PE only; user responsible for specific compliance (e.g., food contact)

16. Other Information

Document Ref: POLYETHGUARD MICROBLEND E65

Issue Date: July 2025

Prepared by: Polymer Add Thailand

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

Recommended dosage: 1.0–5.0 wt% in PE formulations.

Packaging: 10 kg PE-lined kraft bags; optional 5 kg HDPE sealed; 500 kg/pallet.

Disclaimer: Data are provided for safe handling. Performance must be verified by user in end-application

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.