

# 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:** WHITE MB MICROBLEND W45

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

Field	Information
Product Name	WHITE MB MICROBLEND W45
Recommended Uses	Micronized additive blend for TiO <sub>2</sub> -based white masterbatch 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.
Physical Hazards	Fine powder may form combustible dust-air mixtures.
Health Hazards	Dust may cause mild irritation to skin, eyes, and respiratory tract.
Environmental Hazards	Not expected to pose environmental hazards under normal use.

### 3. Composition/Information on Ingredients

Component	Function	% w/w	CAS No.
Micronized Polyethylene Wax	Dispersant, melt flow enhancer	40	9002-88-4
Micronized Zinc Stearate	Pigment wetting, process lubricant	20	557-05-1
Glycerol Monostearate (GMS 90%)	Internal lubricant, anti-static	10	31566-31-1
Dispersible Fumed Silica	Flow aid, anti-settling	8	112945-52-5
Synthetic Amorphous Silica	Flow stabilizer, anti-caking	7	112926-00-8
Micronized Polyethylene Oxide (High MW)	Melt viscosity controller	5	25322-68-3
Silicone-Treated Silica	Anti-blocking, surface slip	5	Proprietary
Micronized Antioxidant AO-1010	Processing stabilizer	5	6683-19-8

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## 4. First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical advice if irritation persists.
- **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
- **Eye Contact:** Flush with plenty of water for at least 15 minutes. Seek medical attention if irritation continues.
- **Ingestion:** Rinse mouth. No significant toxicity expected; seek medical help if large amounts ingested.

## 5. Firefighting Measures

- **Suitable Extinguishing Media:** CO<sub>2</sub>, dry chemical, foam, water spray.
- **Specific Hazards:** Combustion releases CO, CO<sub>2</sub>, hydrocarbons, and nitrogen oxides. Dust clouds may be explosive.
- **Protective Equipment:** Firefighters should use self-contained breathing apparatus.

## 6. Accidental Release Measures

- **Personal Precautions:** Avoid breathing dust. Use PPE (mask, gloves, goggles).
- **Environmental Precautions:** Prevent spillage into drains and natural watercourses.
- **Methods for Cleaning Up:** Vacuum (HEPA filter) or sweep up and place in sealed containers. Avoid dry brushing.

## 7. Handling and Storage

- **Handling:** Use only in well-ventilated areas. Avoid dust formation. Ground equipment to prevent static discharge.
- **Storage:** Store in a cool, dry place, away from direct sunlight and heat. Keep sealed when not in use.
- **Shelf Life:** 12 months in sealed packaging.

## 8. Exposure Controls / Personal Protection

Field	Information
Exposure Limits	Follow local dust regulations for zinc stearate, silica, and nuisance dust.
Engineering Controls	Provide local exhaust ventilation.
Personal Protection	<ul style="list-style-type: none"><li>• Respiratory: Dust mask/respirator (P2/P3).</li><li>• Eye: Safety goggles.</li><li>• Skin: Protective gloves, coveralls.</li></ul>

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## 9. Physical and Chemical Properties

Property	Value
Appearance	White micronized powder
Odour	Neutral to faint waxy
Particle Size (D100)	< 20 $\mu\text{m}$
Particle Size (D50)	6–9 $\mu\text{m}$
Moisture Content	< 0.5 %
Bulk Density	0.28–0.38 g/cm <sup>3</sup>
Melting Range	95–135 °C
Dispersibility	Excellent in PE/PP/EVA resins

## 10. Stability and Reactivity

- **Stability:** Stable under recommended conditions.
- **Conditions to Avoid:** Heat, ignition sources, moisture accumulation.
- **Incompatible Materials:** Strong oxidizing agents.
- **Hazardous Decomposition:** CO, CO<sub>2</sub>, hydrocarbons, and metal oxides.

## 11. Toxicological Information

Test	Result
Acute Toxicity	Low acute toxicity.
Irritation	Dust may cause mild irritation to eyes, skin, and respiratory system.
Chronic Effects	Repeated exposure to silica and zinc stearate dust may cause lung irritation.
Carcinogenicity	None of the listed ingredients are classified as carcinogenic by IARC/OSHA/EU.

## 12. Ecological Information

- **Ecotoxicity:** Not harmful at intended use levels.
- **Persistence/Degradability:** Components are stable and largely non-biodegradable.
- **Bioaccumulation:** Negligible.
- **Mobility:** Low, due to insolubility in water.

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## 13. Disposal Considerations

- **Product Disposal:** Dispose of according to local regulations.
- **Methods:** Controlled landfill or incineration in approved facilities.
- **Packaging:** Reuse or recycle if possible; otherwise dispose as industrial waste.

## 14. Transport Information

Mode	Remarks
UN Classification	Not classified as dangerous goods.
ADR/RID/IMDG/IATA	Non-hazardous for transport.
Transport Precautions	Protect from moisture, keep sealed and intact during transport.

## 15. Regulatory Information

- **Classification:** Non-hazardous mixture under GHS.
- **Regulatory Status:** All components listed with CAS numbers; REACH registered or exempt.
- **Restrictions:** Industrial use only.

## 16. Other Information

**Document Ref:** WHITE MB MICROBLEND W45

**Issue Date:** August 2025

**Prepared by:** Polymer Add Thailand

**References:** Technical Data Sheet BLACK MB MICROBLEND B45, supplier raw material SDS.

**Abbreviations:** GHS = Globally Harmonized System.

**Disclaimer:** Information is based on current knowledge and intended for safe handling. User must confirm suitability for specific 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.