

# 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:** UVOX-MATCH MICROBLEND U75

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

| Field            | Information   |
|------------------|---|
| Product Name     | UVOX-MATCH MICROBLEND U75   |
| Recommended Uses | Micronized additive blend for UV/antioxidant masterbatches in PE/PP systems           |
| 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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| Mobile (Thai)    | 0804531391  |
| Mobile (English) | 0839415475  |
| Email            | contact@polymeradd.co.th  |

### 2. Hazards Identification

| Field                 | Description   |
|-----------------------|---|
| Classification(GHS)   | Mixture not classified as hazardous, but contains substances of concern.  |
| Physical Hazards      | Dust may form explosive mixtures with air.  |
| Health Hazards        | Dust inhalation may cause irritation. Prolonged exposure to antioxidants and UV absorbers may affect skin/eyes. |
| Environmental Hazards | Components are not readily biodegradable; care should be taken to prevent release into the environment.         |

### 3. Composition/Information on Ingredients

| Component  | CAS No.     | % w/w | Function                |
|--|-------------|-------|-------------------------|
| Micronized Polyethylene Wax                          | 9002-88-4   | 30.0  | Carrier, dispersion aid |
| AO 1010 (Primary antioxidant)                        | 2082-79-3   | 20.0  | Thermal stabilizer      |
| AO 168 (Secondary antioxidant)                       | 31570-04-4  | 10.0  | Processing stabilizer   |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (HALS) | 52829-07-9  | 15.0  | Light stabilizer        |
| Benzotriazole UV Absorber (UV 234)                   | 70321-86-7  | 10.0  | UV absorber             |
| Hydrophobic Fumed Silica (R972 type)                 | 68909-20-6  | 5.0   | Flow aid, anti-caking   |
| Synthetic Amorphous Silica                           | 112926-00-8 | 10.0  | Flow/processing aid     |

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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:** 24 months in sealed packaging.

## 8. Exposure Controls / Personal Protection

| Field                | Information   |
|----------------------|---|
| Exposure Limits      | Observe local limits for silica and 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          | Fine off-white to beige micronized powder |
| Odour               | Neutral to mild aromatic                  |
| Particle Size (D50) | < 8 $\mu\text{m}$                         |
| Moisture Content    | < 0.5 %                                   |
| Bulk Density        | 0.38–0.46 g/cm <sup>3</sup>               |
| Melting Range       | 80–130 °C                                 |
| Solubility          | Insoluble in water                        |

## 10. Stability and Reactivity

- **Stability:** Stable under recommended storage and handling.
- **Conditions to Avoid:** High heat, open flame, dust accumulation.
- **Incompatible Materials:** Strong oxidizing agents.
- **Decomposition Products:** CO, CO<sub>2</sub>, hydrocarbons, nitrogen oxides.

## 11. Toxicological Information

| Test             | Result  |
|------------------|---|
| Acute Toxicity   | Low acute toxicity.   |
| Irritation       | Dust may cause mechanical irritation to eyes, skin, and respiratory tract.          |
| Chronic Exposure | Chronic overexposure to silica dust may cause lung irritation.                      |
| Carcinogenicity  | None of the components are classified as carcinogenic under IARC/OSHA/EU.           |
| Sensitization    | HALS and UV absorbers may cause mild skin sensitization in susceptible individuals. |

## 12. Ecological Information

- **Ecotoxicity:** Not classified as environmentally hazardous but avoid uncontrolled release.
- **Persistence/Degradability:** Antioxidants and UV absorbers are not readily biodegradable.
- **Mobility:** Low solubility; low mobility in soil.
- **Bioaccumulation:** Potential for bioaccumulation of certain antioxidants/UV absorbers; expected to be low in polymer systems.

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## 13. Disposal Considerations

- **Product Disposal:** Dispose of in accordance with local regulations.
- **Recommended Methods:** Incineration in approved facility or landfill.
- **Packaging:** Recycle where 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 | Keep packaging dry, sealed, and protected from damage. |

## 15. Regulatory Information

- **Classification:** Non-hazardous mixture under GHS.
- **Regulatory Status:** Components are registered under REACH or exempt.
- **Use Restriction:** For industrial use only; not approved for direct food-contact unless specified.

## 16. Other Information

**Document Ref:** UVOX-MATCH MICROBLEND U75

**Issue Date:** August 2025

**Prepared by:** Polymer Add Thailand

**References:** Technical Data Sheet BLACKMB 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.