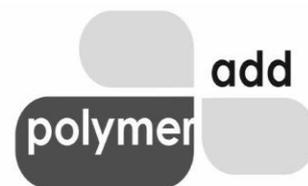


# Polymer Add (Thailand) Co.,Ltd.

Office - 106, Chalaremprikiat, 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)

### HIGH-DENSITY POLYETHYLENE (HDPE) MICRONISED – FILTER MEDIA GRADE

Revision	1.0
Date	January 2026

#### 1. IDENTIFICATION

<b>Product Name</b>	<b>High-Density Polyethylene (HDPE) Micronised – Filter Media Grade</b>
<b>Chemical Name</b>	High-Density Polyethylene resin
<b>Synonyms</b>	Micronised HDPE; Polyethylene Powder; HDPE Filter Media
<b>CAS Number</b>	9002-88-4
<b>Chemical Formula</b>	$(C_2H_4)_n$
<b>Recommended Use</b>	Polymeric filter media for pressure filtration of non-aqueous liquids (industrial use)
<b>Manufacturer</b>	Polymer Add (Thailand) Co., Ltd. Bangkok / Samut Prakan, Thailand
<b>Emergency Contact</b>	Available upon request

#### 2. HAZARD IDENTIFICATION

<b>GHS Classification</b>	<b>Not classified as hazardous according to GHS, EU CLP (EC 1272/2008)</b>
<b>Label Elements</b>	Not required

#### Hazards Not Otherwise Classified:

Fine polymer dust	May cause mechanical irritation to eyes or respiratory tract
Molten material	May cause thermal burns

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

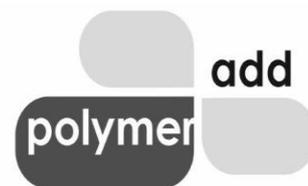
<b>Component</b>	<b>CAS No.</b>	<b>Concentration</b>
High-Density Polyethylene	9002-88-4	≥ 99 %

#### 4. FIRST-AID MEASURES

Skin Contact	Solid material: Wash with soap and water. Molten material: Cool with running water. Do not attempt removal. Seek medical attention.
Eye Contact	Flush immediately with water for at least 15 minutes. Seek medical attention if irritation persists.
Inhalation	Move to fresh air. If symptoms persist, seek medical attention.
Ingestion	Not a likely route of exposure. Rinse mouth. Do not induce vomiting unless directed by medical personnel.

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## 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Water fog, foam, dry chemical, carbon dioxide
Specific Hazards	Combustion may generate carbon monoxide, carbon dioxide, and low-molecular-weight hydrocarbons.
Protective Equipment	Self-contained breathing apparatus and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid dust inhalation. Use appropriate PPE.
Environmental Precautions	Prevent release to environment.
Cleanup Methods	Sweep or vacuum using dust-controlled methods. Avoid generating airborne dust.

## 7. HANDLING AND STORAGE

Handling	Avoid excessive dust generation. Use local exhaust ventilation if needed. Avoid contact with eyes.
Storage	Store in a cool, dry, well-ventilated area. Keep away from heat, flame, and sparks. Keep containers tightly closed.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Limits (guideline):

Substance	Reference	Limit
Polyethylene dust	Typical OEL	10 mg/m <sup>3</sup> (total dust)

### Personal Protective Equipment:

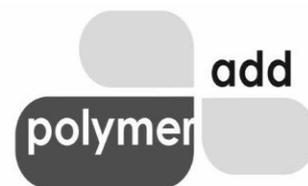
Eye protection	Safety glasses
Respiratory protection	Not normally required; use dust mask if dust is generated
Protective clothing	Standard industrial workwear

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	White to off-white powder
Odor	Odorless
Physical State	Solid
Melting Point	~130 – 135 °C
Flash Point	~340 °C
Auto-ignition Temperature	~380 °C
Solubility in Water	Insoluble
Density	~0.95 g/cm <sup>3</sup>

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Bulk Density (powder)	~400 – 550 kg/m <sup>3</sup>
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## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	<b>Stable under normal conditions.</b>
<b>Conditions to Avoid</b>	Excessive heat, open flame, uncontrolled dust dispersion.
<b>Incompatible Materials</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	Carbon oxides, hydrocarbons (under thermal decomposition).

## 11. TOXICOLOGICAL INFORMATION

<b>Acute Toxicity</b>	<b>Oral LD<sub>50</sub> (rat): &gt; 8,000 mg/kg</b>
<b>Eye Irritation</b>	Mechanical irritation possible
<b>Skin Irritation</b>	Not irritating (solid); molten material causes thermal burns
<b>Inhalation</b>	Dust may cause temporary irritation
<b>Carcinogenicity</b>	Not classifiable (IARC Group 3 – polymer inert)

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	<b>No known adverse effects.</b>
<b>Persistence / Degradability</b>	Not readily biodegradable.
<b>Bioaccumulation</b>	Not expected to bioaccumulate.

## 13. DISPOSAL CONSIDERATIONS

Disposal	Dispose of in accordance with local regulations.
Recycling	Material may be recycled if uncontaminated.
Other	Incineration or licensed landfill disposal is acceptable.

## 14. TRANSPORT INFORMATION

<b>UN Number</b>	<b>Not regulated</b>
<b>ADR / RID</b>	Not regulated
<b>IMDG</b>	Not regulated
<b>IATA</b>	Not regulated

## 15. REGULATORY INFORMATION

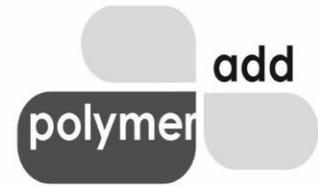
REACH	Polymer – exempt from registration
TSCA	Listed
RoHS / WEEE	Compliant
WHMIS	Not classified

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EU CLP	Not hazardous
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## 16. OTHER INFORMATION

This SDS is based on current knowledge of high-density polyethylene materials and their micronised physical form. Information is provided in good faith and is not a guarantee of product performance.

### MONTH OF PREPARATION

JAN 2026

### MONTH OF REVIEW

JAN 2028

POLYMERADD