

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) MICRONISED MELAMINE CYANURATE (MCA) CAS Number: 37640-57-6

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

Field	Information
Product Name	MICRONISED MELAMINE CYANURATE (MCA)
Synonyms	Melamine-cyanuric acid complex; melamine-cyanuric acid adduct; MCA
CAS Number	37640-57-6
Relevant Identified Uses	Halogen-free flame retardant for polyamides and other compatible polymer systems; industrial plastics applications
Uses Advised Against	Not intended for direct food, cosmetic, pharmaceutical, or consumer use
Supplier	Polymer Add (Thailand) Co., Ltd
Office Address	106, Chalarempriakiat, Lor 9, Soi 22, Yak 5, Nongbon, Prawet, Bangkok, Thailand 10250
Factory Address	188/3, Moo 8, Bangpu Mai, Muang Samut Prakan, Samutprakan, Thailand 10280
Mobile (Thai)	0804531391
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Email	contact@polymeradd.co.th

2. Hazards Identification

Field	Description
Classification (GHS/CLP)	Not classified as hazardous based on available substance data
Label Elements	No pictogram, signal word, hazard statement, or precautionary statement required
Other Hazards	Micronised powder may cause mechanical irritation. Airborne combustible dust may form an explosive mixture under certain conditions. Avoid dust clouds and ignition sources.
PBT/vPvB Assessment	No complete product-specific assessment available; not expected to meet PBT or vPvB criteria based on available information

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3. Composition / Information on Ingredients

Substance	CAS No.	EC No.	Molecular Formula	Purity
Melamine Cyanurate	37640-57-6	253-575-7	C ₆ H ₉ N ₉ O ₃	Typically >=99%

4. First Aid Measures

- **General Advice:** Remove affected person from exposure. Obtain medical advice if symptoms persist
- **Inhalation:** Move to fresh air. Keep at rest. Seek medical attention if coughing, breathing difficulty, or irritation develops
- **Skin Contact:** Remove contaminated clothing and wash skin thoroughly with soap and water
- **Eye Contact:** Rinse cautiously with clean water for several minutes. Remove contact lenses if easy to do. Continue rinsing and seek medical advice if irritation persists
- **Ingestion:** Rinse mouth. Do not induce vomiting. Obtain medical advice promptly if a significant quantity was swallowed
- **Most Important Symptoms:** Dust may cause mechanical irritation of the eyes, skin, nose, and throat. Significant ingestion may cause gastrointestinal discomfort and requires medical assessment

5. Firefighting Measures

- **Suitable Extinguishing Media:** Water spray, alcohol-resistant foam, dry chemical, or carbon dioxide; select media appropriate for the surrounding fire
- **Specific Hazards:** Fine organic powder may create a combustible dust atmosphere. Heating and fire may generate toxic or irritating gases, including carbon oxides, nitrogen oxides, ammonia, and other nitrogen-containing gases
- **Protective Equipment:** Firefighters should wear full protective equipment and positive-pressure self-contained breathing apparatus
- **Additional Advice:** Cool exposed containers with water spray and prevent contaminated firewater from entering drains

6. Accidental Release Measures

- **Personal Precautions:** Avoid breathing dust and prevent dust generation. Remove ignition sources. Use gloves, goggles, and suitable particulate respiratory protection
- **Environmental Precautions:** Prevent entry into drains, soil, and waterways
- **Clean-Up Methods:** Use an explosion-safe HEPA vacuum where appropriate, or carefully sweep into a closed container. Do not use compressed air. Avoid dry sweeping that produces airborne dust
- **Reference:** See Sections 8 and 13 for exposure control and disposal guidance

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7. Handling and Storage

- **Handling:** Use with adequate ventilation or local exhaust. Avoid contact with eyes and skin and avoid breathing dust. Minimise dust deposits. Ground and bond equipment where dust ignition risk exists
- **Hygiene:** Wash hands after handling. Do not eat, drink, or smoke in work areas
- **Storage:** Keep tightly closed in a cool, dry, well-ventilated area. Protect from moisture and heat. Keep away from incompatible materials and ignition sources
- **Packaging:** Store in the original or compatible sealed packaging and protect from physical damage

8. Exposure Controls / Personal Protection

Field	Information
Occupational Exposure Limit	No substance-specific occupational exposure limit identified; apply applicable local limits for nuisance or inhalable/respirable dust
Engineering Controls	Enclosed transfer and local exhaust ventilation recommended for micronised powder
Respiratory Protection	Use an approved particulate respirator selected under a workplace risk assessment when ventilation is insufficient
Eye Protection	Safety glasses with side shields; use sealed goggles where dust levels are high
Hand / Skin Protection	Protective gloves and work clothing; wash exposed skin after handling
Environmental Controls	Contain powder and prevent uncontrolled release to drains and the environment

9. Physical and Chemical Properties

Property	Value
Appearance	White to off-white micronised powder
Odour	Odourless or faint characteristic odour
Molecular Weight	255.19 g/mol
pH	Not applicable to the dry powder; aqueous-slurry value is grade-dependent
Melting / Decomposition Point	Approximately 350 deg C; decomposes
Boiling Point	Not applicable; decomposes before boiling
Flash Point	Not applicable to the solid
Flammability	Not classified as flammable; fine dust may be combustible

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Vapour Pressure	Negligible at ambient temperature
Relative Density	Approximately 1.7
Solubility in Water	Insoluble or very slightly soluble in water
Auto-Ignition Temperature	No reliable product-specific data available
Explosive Properties	Dust explosion hazard may exist when fine powder is dispersed in air
Oxidizing Properties	Not oxidizing

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10. Stability and Reactivity

- **Reactivity:** No hazardous reaction expected under recommended handling and storage conditions
- **Chemical Stability:** Stable under normal ambient conditions when kept dry
- **Possibility of Hazardous Reactions:** May react with strong acids, strong bases, and strong oxidizing agents. Decomposition occurs on strong heating
- **Conditions to Avoid:** Heat, ignition sources, moisture, dust accumulation, and formation of airborne dust clouds
- **Incompatible Materials:** Strong acids, strong bases, strong oxidizing agents, and reactive chemicals
- **Hazardous Decomposition Products:** Carbon oxides, nitrogen oxides, ammonia, and other toxic or irritating nitrogen-containing gases may form under fire or severe decomposition conditions

11. Toxicological Information

Endpoint	Assessment
Acute Toxicity	Not classified based on available information. Ingestion of significant quantities should be medically assessed because melamine-cyanurate crystals may affect the urinary system
Skin Corrosion / Irritation	Not expected to be corrosive or irritating; powder may cause mechanical irritation
Serious Eye Damage / Irritation	Not classified; dust may cause temporary mechanical irritation
Respiratory / Skin Sensitisation	Not classified based on available information
Germ Cell Mutagenicity	Not classified based on available information
Carcinogenicity	Not classified based on available information
Reproductive Toxicity	Not classified based on available information
STOT - Single / Repeated Exposure	Not classified based on available information
Aspiration Hazard	Not applicable to a solid powder

12. Ecological Information

Field	Assessment
Ecotoxicity	Not classified as hazardous to the aquatic environment based on available information
Persistence / Degradability	No complete product-specific assessment available; avoid uncontrolled release

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Bioaccumulative Potential	No complete product-specific assessment available; bioaccumulation is not expected to be significant
Mobility in Soil	Low mobility is expected because of poor water solubility; site conditions may affect behaviour
PBT / vPvB	No complete product-specific assessment available; not expected to meet PBT or vPvB criteria
Other Adverse Effects	No known significant effects when handled and disposed of correctly

13. Disposal Considerations

- **Product:** Dispose of through a licensed waste contractor in accordance with national and local regulations
- **Contaminated Packaging:** Empty thoroughly. Recycle or dispose of packaging according to local requirements
- **Precautions:** Do not discharge product or wash water to drains, surface water, or soil
- **Waste Classification:** Determine the applicable waste code based on the actual use, contamination, and local regulation

14. Transport Information

Mode	Classification	Remarks
ADR/RID	Not regulated	Not classified as dangerous goods
IMDG	Not regulated	Not a marine pollutant
ICAO/IATA	Not regulated	Not restricted as dangerous goods
UN Number / Proper Shipping Name	Not applicable	No assigned transport hazard class or packing group
Special Precautions	Keep packaging closed, dry, and protected from damage during transport	

15. Regulatory Information

- **GHS / CLP:** Not classified as hazardous based on available substance information
- **Chemical Safety Assessment:** No product-specific chemical safety assessment has been performed by Polymer Add (Thailand) Co., Ltd
- **Inventory / Registration Status:** Regulatory status must be confirmed for the destination country and intended use before supply

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- **Local Requirements:** The user is responsible for compliance with applicable national workplace, environmental, and chemical-control regulations

16. Other Information - Micronised Melamine Cyanurate (MCA), CAS 37640-57-6

- **SDS Version:** 1.0 / 2026
- **Date of Preparation:** 19 September 2026
- **Reason for Issue:** Initial issue in Polymer Add SDS format
- **Abbreviations:** ADR: European road transport; CLP: Classification, Labelling and Packaging; GHS: Globally Harmonized System; IATA: air transport; IMDG: maritime transport; PBT: persistent, bioaccumulative and toxic; vPvB: very persistent and very bioaccumulative
- **Important Note:** Because this product is micronised, workplace dust control should be based on the actual particle-size distribution, handling method, and site-specific dust explosibility assessment

Disclaimer:

This SDS is intended for industrial handling, storage, and transportation. It is not a product specification or a substitute for a workplace risk assessment. Information is provided in good faith based on data available at the date of issue. Polymer Add (Thailand) Co., Ltd disclaims liability for improper use or handling.

Month of Creation

Sept 2026