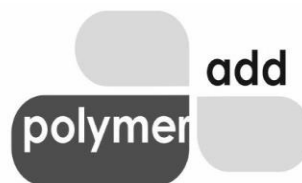


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Mobile - Thai : 0804531391, English: 0839415475, E-mail – contact@polymeradd.co.th



SAFETY DATA SHEET SDS

ANTIOXIDANT 1010

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

Field	Information
Product Name	ANTIOXIDANT 1010
Chemical Name	Pentaerythritol tetrakis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]
CAS Number	6683-19-8
Relevant Identified Uses	Primary antioxidant and long-term heat stabiliser for plastics, elastomers, adhesives, coatings and other organic materials
Uses Advised Against	Not intended for pharmaceutical or direct food use unless specifically tested and certified
Supplier	Polymer Add (Thailand) Co., Ltd.
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Mobile Thai	0804531391
Mobile English	0839415475
Email	contact@polymeradd.co.th

2. Hazards Identification

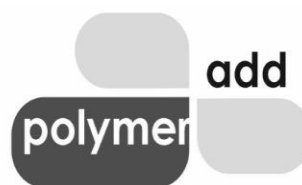
Field	Description
GHS Classification	Hazardous to the aquatic environment, long-term hazard, Category 4
Signal Word	No signal word required
Hazard Pictogram	No pictogram required
Hazard Statement	H413: May cause long-lasting harmful effects to aquatic life
Precautionary Statement	P273: Avoid release to the environment

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Disposal Statement	P501: Dispose of contents and container through an approved waste-disposal facility
Other Hazards	Airborne powder may cause mechanical irritation. Fine dust dispersed in air may form a combustible dust atmosphere

3. Composition Information on Ingredients

Substance	CAS Number	EC Number	Concentration
Pentaerythritol tetrakis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]	6683-19-8	229-722-6	≥94.0% assay; ≥98.0% effective components

4. First Aid Measures

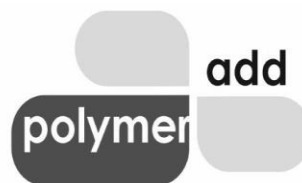
- **General advice:** Remove the affected person from exposure. Obtain medical attention if symptoms develop or persist.
- **Inhalation:** Move the person to fresh air and keep comfortable for breathing. Seek medical advice if coughing, irritation or breathing difficulty develops.
- **Skin contact:** Wash thoroughly with soap and water. Remove contaminated clothing. Obtain medical advice if irritation persists.
- **Eye contact:** Rinse cautiously with clean water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.
- **Ingestion:** Rinse the mouth with water. Do not induce vomiting unless instructed by medical personnel. Seek medical advice if a significant quantity is swallowed or symptoms develop.
- **Most important symptoms:** Dust may cause temporary mechanical irritation of the eyes, skin, nose or respiratory tract.

5. Firefighting Measures

- **Suitable extinguishing media:** Water spray, alcohol-resistant foam, dry chemical powder or carbon dioxide.
- **Unsuitable extinguishing media:** Avoid using a concentrated water jet where it may spread burning material or disperse powder.
- **Fire hazards:** Combustible organic solid. Fine airborne dust may create a combustible or explosive dust atmosphere.

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- **Hazardous combustion products:** Carbon monoxide, carbon dioxide and irritating organic fumes.
- **Protective equipment:** Firefighters should wear full protective clothing and self-contained breathing apparatus.
- **Additional precautions:** Cool exposed containers with water spray. Prevent contaminated firefighting water from entering drains or waterways.

6. Accidental Release Measures

- **Personal precautions:** Avoid breathing dust and prevent contact with the eyes. Remove unnecessary personnel and eliminate ignition sources.
- **Protective equipment:** Wear suitable gloves, safety goggles and particulate respiratory protection where dust exposure is possible.
- **Environmental precautions:** Prevent entry into drains, soil, surface water and groundwater.
- **Clean-up methods:** Collect using an industrial vacuum suitable for combustible dust or sweep carefully without generating airborne dust.
- **Disposal:** Place collected material in a labelled, closed container and dispose of it according to applicable regulations.

7. Handling and Storage

- **Handling:** Avoid dust formation and accumulation. Avoid breathing dust and contact with the eyes. Provide local exhaust ventilation where powder is transferred or processed.
- **Fire and explosion protection:** Keep away from open flames, sparks and other ignition sources. Ground and bond equipment where dust accumulation is possible.
- **Storage:** Store in the original, tightly closed packaging in a cool, dry and well-ventilated area.
- **Conditions to avoid:** Excessive heat, direct sunlight, ignition sources, moisture and dust accumulation.
- **Incompatible materials:** Strong oxidising agents.

8. Exposure Controls Personal Protection

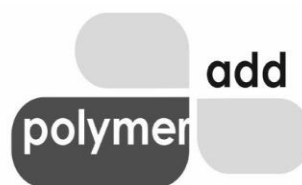
Field	Information
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Occupational Limit	Exposure	No substance-specific exposure limit established; apply applicable limits for nuisance or respirable dust
Engineering Controls		General ventilation and local exhaust extraction where dust is generated
Respiratory Protection		Suitable particulate respirator when ventilation is insufficient
Hand Protection		Protective gloves
Eye Protection		Safety goggles or safety glasses with side protection
Skin Protection		Suitable protective work clothing
Hygiene Measures		Wash hands after handling and before eating, drinking or smoking
Environmental Controls		Avoid uncontrolled discharge to drains, soil or waterways

9. Physical and Chemical Properties

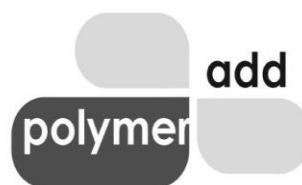
Property	Value
Appearance	White powder or granule
Physical State	Solid
Odour	Odourless or nearly odourless
Molecular Formula	$C_{73}H_{108}O_{12}$
Molecular Weight	1,177.66 g/mol
Melting Range	110-125°C
Boiling Point	Not applicable; decomposition may occur before boiling
Flash Point	Approximately 297°C
Flammability	Combustible organic solid
Vapour Pressure at 20°C	Approximately 7×10^{-10} Pa
Density at 20°C	Approximately 1.15 g/mL
Bulk Density	Approximately 530-630 g/L
Water Solubility	Practically insoluble

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Solubility in Organic Solvents	Soluble in acetone, chloroform, ethyl acetate, methylene chloride and aromatic solvents
Auto-Ignition Temperature	No reliable product-specific value available
Decomposition Temperature	No reliable product-specific value available
Explosive Properties	Fine airborne dust may form an explosive dust-air mixture
Oxidising Properties	Not classified as an oxidising substance

10. Stability and Reactivity

- **Reactivity:** No dangerous reaction expected under recommended handling and storage conditions.
- **Chemical stability:** Stable under normal dry storage conditions.
- **Possibility of hazardous reactions:** Fine dust may form a combustible mixture with air.
- **Conditions to avoid:** Excessive heat, open flames, sparks, static discharge and dust accumulation.
- **Incompatible materials:** Strong oxidising agents.
- **Hazardous decomposition products:** Carbon monoxide, carbon dioxide and irritating organic fumes during combustion or thermal decomposition.

11. Toxicological Information

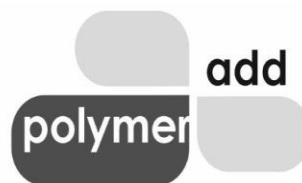
Toxicological Endpoint	Information
Acute Oral Toxicity	Available information does not indicate classification for acute oral toxicity
Acute Dermal Toxicity	Available information does not indicate classification for acute dermal toxicity
Acute Inhalation Toxicity	Product dust may cause mechanical respiratory irritation
Skin Corrosion or Irritation	Not classified; prolonged or repeated contact may cause mechanical irritation

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Serious Eye Damage or Irritation	Not classified; powder may cause mechanical irritation
Respiratory Sensitisation	No conclusive evidence available
Skin Sensitisation	No conclusive evidence available
Germ Cell Mutagenicity	Not classified based on available information
Carcinogenicity	Not classified as carcinogenic based on available information
Reproductive Toxicity	Not classified based on available information
STOT Single Exposure	Dust may cause temporary respiratory irritation
STOT Repeated Exposure	Not classified based on available information
Aspiration Hazard	Not applicable to a solid powder

12. Ecological Information

Endpoint	Information
Aquatic Hazard	May cause long-lasting harmful effects to aquatic life
Persistence and Degradability	Complete product-specific information is not available in this document
Bioaccumulative Potential	Complete product-specific information is not available
Mobility in Soil	Expected to have limited mobility because of very low water solubility
PBT and vPvB Assessment	Not determined in this document
Other Adverse Effects	Avoid uncontrolled release into the environment

13. Disposal Considerations

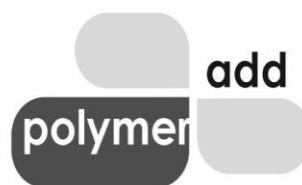
- Dispose of the product according to applicable local, national and regional regulations.
- Do not discharge into drains, waterways or the environment.
- Contaminated packaging should be emptied completely and disposed of through an authorised waste contractor.
- Clean, uncontaminated packaging may be recycled where permitted.

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- Waste classification must be determined according to the product's use, contamination and applicable local regulations.

14. Transport Information

Mode	Classification
ADR/RID	Not regulated as dangerous goods
IMDG	Not regulated as dangerous goods
ICAO/IATA	Not regulated as dangerous goods
DOT	Not regulated as dangerous goods

Transport Field	Information
UN Number	Not assigned
UN Proper Shipping Name	Not applicable
Transport Hazard Class	Not applicable
Packing Group	Not applicable
Environmental Hazard	Not classified as a marine pollutant for transport
Special Precautions	Protect from excessive heat, moisture and packaging damage

15. Regulatory Information

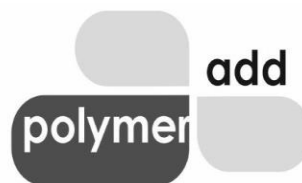
- **CAS Number:** 6683-19-8
- **EC Number:** 229-722-6
- **GHS classification used in this document:** Aquatic Chronic Category 4
- **Hazard statement:** H413

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Compliance with REACH, UK REACH, K-REACH, TSCA, DSL, IECSC or other national chemical inventories must be confirmed through the manufacturer or its authorised regulatory representative.

Food-contact suitability must be supported by a separate manufacturer-specific declaration and verified for the intended polymer, concentration, processing conditions and destination market.

This SDS is not a food-contact declaration, regulatory certificate or product specification.

16. Other Information

- **Product:** Antioxidant 1010
- **Chemical Name:** Pentaerythritol tetrakis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]
- **CAS Number:** 6683-19-8
- **SDS Version:** 1.0
- **Date of Preparation:** September 2026
- **Reason for Preparation:** Initial preparation in Polymer Add SDS format

Hazard statement definition

- **H413:** May cause long-lasting harmful effects to aquatic life.

Disclaimer

This Safety Data Sheet is intended to provide guidance for the safe industrial handling, storage and transportation of the product. It is not a product specification or Certificate of Analysis.

The information is based on the supplied Certificate of Analysis and currently available technical and safety information. The user is responsible for determining the suitability of the product and the information provided for the intended application.

Polymer Add (Thailand) Co., Ltd. disclaims liability arising from improper handling, misuse or use outside the recommended conditions.

Month of Creation: September 2026

Month of Review: September 2028