

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

ANTIOXIDANT 168

Chemical Name: Tris(2,4-di-tert-butylphenyl) phosphite

CAS Number: 31570-04-4

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

Field	Information
Product Name	ANTIOXIDANT 168
Chemical Name	Tris(2,4-di-tert-butylphenyl) phosphite
CAS Number	31570-04-4
Relevant Identified Uses	Secondary antioxidant and processing stabiliser for plastics, elastomers, adhesives, coatings and other polymer systems
Uses Advised Against	Not intended for pharmaceutical or direct food use unless specifically tested and certified
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, Samut Prakan, Thailand 10280
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Email	contact@polymeradd.co.th

2. Hazards Identification

Field	Description
GHS Classification	Skin irritation, Category 2; Eye irritation, Category 2A; Hazardous to the aquatic environment, long-term hazard, Category 4
Signal Word	Warning
Pictogram	GHS07 - Exclamation mark
Hazard Statements	H315: Causes skin irritation

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	H319: Causes serious eye irritation
	H413: May cause long-lasting harmful effects to aquatic life
Precautionary Statements	P264: Wash hands and exposed skin thoroughly after handling
	P273: Avoid release to the environment
	P280: Wear protective gloves and eye or face protection
	P302 + P352: IF ON SKIN: Wash with plenty of water
	P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
	P337 + P313: If eye irritation persists, obtain medical advice or attention
	P501: Dispose of contents and container according to applicable regulations
Other Hazards	Fine powder dispersed in air may create a combustible dust atmosphere. Product is sensitive to prolonged exposure to moisture

3. Composition Information on Ingredients

Substance	CAS No.	EC No.	Concentration
Tris(2,4-di-tert-butylphenyl) phosphite	31570-04-4	250-709-6	≥99.0%

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 attention if coughing, breathing difficulty or irritation develops.

Skin contact: Remove contaminated clothing. Wash the affected skin thoroughly with soap and water. Obtain medical advice if irritation develops or persists.

Eye contact: Rinse cautiously with clean water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Obtain 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.

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Most important symptoms: May cause redness, discomfort and irritation of the skin and eyes. Dust may cause mechanical irritation of the respiratory tract.

5. Firefighting Measures

Suitable extinguishing media: Water spray, foam, dry chemical powder or carbon dioxide.

Unsuitable extinguishing media: Do not use a concentrated water jet where it may spread burning material or disperse dust.

Specific fire hazards: Organic combustible solid. Fine dust suspended in air may form an explosive dust-air mixture.

Hazardous combustion products: Carbon monoxide, carbon dioxide, phosphorus oxides and irritating fumes.

Protective equipment: Firefighters should wear full protective clothing and self-contained breathing apparatus.

Additional advice: Cool exposed containers with water spray. Prevent contaminated firefighting water from entering drains and waterways.

6. Accidental Release Measures

Personal precautions: Avoid breathing dust and prevent contact with the skin and eyes. Eliminate ignition sources. Ensure adequate ventilation.

Protective equipment: Wear suitable gloves, safety goggles and particulate respiratory protection.

Environmental precautions: Prevent the material from entering 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. Place recovered material in a properly labelled container.

Disposal: Dispose of contaminated material according to applicable local regulations.

7. Handling and Storage

Handling: Avoid the formation and accumulation of dust. Avoid inhalation and contact with the skin and eyes. Provide adequate general ventilation and local exhaust ventilation where dust is generated.

Fire and explosion protection: Keep away from heat, sparks, open flames and other ignition sources. Ground and bond handling equipment where combustible dust may accumulate.

Storage: Store in the original, tightly closed packaging in a cool, dry and well-ventilated area.

Conditions to avoid: Moisture, humid air, excessive heat, direct sunlight and ignition sources.

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Incompatible materials: Strong oxidising agents, strong acids and strong alkalis.

8. Exposure Controls Personal Protection

Field	Information
Occupational Exposure Limit	No substance-specific occupational exposure limit established; apply applicable limits for nuisance or respirable dust
Engineering Controls	Provide adequate general ventilation and local exhaust extraction at points where dust is generated
Respiratory Protection	Use a suitable particulate respirator when ventilation is insufficient or dust exposure is possible
Hand Protection	Chemical-resistant protective gloves
Eye Protection	Safety goggles or safety glasses with side protection
Skin Protection	Protective work clothing
Hygiene Measures	Wash hands after handling and before eating, drinking or smoking. Remove and wash contaminated clothing before reuse
Environmental Controls	Avoid uncontrolled release into drains, soil or waterways

9. Physical and Chemical Properties

Property	Value
Appearance	White powder
Odour	No data available
Molecular Formula	$C_{42}H_{63}O_3P$
Molecular Weight	646.92 g/mol
Purity	≥99.0%
Melting Point	183-187°C
Typical COA Melting Point	184.5°C
Boiling Point	No reliable data available
Flash Point	No reliable data available
Flammability	Combustible organic solid

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Vapour Pressure	Expected to be negligible at ambient temperature
Relative Density	No COA value available
Water Solubility	Practically insoluble; approximately 0.001 mg/L at 20°C
Solubility in Organic Solvents	Soluble in toluene
Partition Coefficient	No reliable data available
Auto-Ignition Temperature	No reliable data available
Decomposition Temperature	No reliable data available
Explosive Properties	Fine airborne dust may create a combustible or explosive dust atmosphere
Oxidising Properties	Not classified as an oxidising substance

10. Stability and Reactivity

Reactivity: No dangerous reaction expected when handled and stored according to instructions.

Chemical stability: Stable under recommended dry storage conditions.

Possibility of hazardous reactions: Dust may form a combustible mixture with air. Prolonged contact with moisture may cause hydrolytic degradation.

Conditions to avoid: Moisture, excessive heat, direct sunlight, sparks, open flames and dust accumulation.

Incompatible materials: Strong oxidising agents, strong acids and strong bases.

Hazardous decomposition products: Carbon monoxide, carbon dioxide, phosphorus oxides and other irritating fumes during combustion or thermal decomposition.

11. Toxicological Information

Toxicological Endpoint	Information
Acute Oral Toxicity	Insufficient product-specific data available for classification in this document
Acute Dermal Toxicity	Insufficient product-specific data available
Acute Inhalation Toxicity	Insufficient product-specific data available
Skin Corrosion or Irritation	Classified as causing skin irritation

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Serious Eye Damage or Irritation	Classified as causing serious eye irritation
Respiratory or Skin Sensitisation	No conclusive data available
Germ Cell Mutagenicity	No conclusive data available
Carcinogenicity	Not established as carcinogenic in this document
Reproductive Toxicity	No conclusive data available
STOT Single Exposure	Dust may cause mechanical irritation of the respiratory tract
STOT Repeated Exposure	No conclusive data available
Aspiration Hazard	Not applicable to a solid powder

12. Ecological Information

Endpoint	Information
Aquatic Toxicity	May cause long-lasting harmful effects to aquatic life
Persistence and Degradability	No sufficient product-specific data available
Bioaccumulative Potential	No sufficient product-specific data available
Mobility in Soil	Expected to have low mobility because of extremely 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.

Do not reuse contaminated packaging unless it has been properly cleaned and assessed as safe.

Waste classification should be determined based on the product's use, contamination and applicable local regulations.

14. Transport Information

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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

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

Special Precautions: Protect packaging from moisture, damage and excessive heat

15. Regulatory Information

CAS Number: 31570-04-4

EC Number: 250-709-6

GHS classification used in this draft: Skin Irritation Category 2; Eye Irritation Category 2A; Hazardous to the Aquatic Environment, Chronic Category 4.

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

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

This SDS does not constitute a regulatory certificate or food-contact declaration.

16. Other Information

Product: Antioxidant 168

Chemical Name: Tris(2,4-di-tert-butylphenyl) phosphite

CAS Number: 31570-04-4

SDS Version: 1.0

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Date of Preparation: September 2026

Reason for Preparation: Initial preparation in Polymer Add SDS format

Hazard statement definitions

H315: Causes skin irritation.

H319: Causes serious eye irritation.

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 currently available technical and safety data. 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 : Sept 2026