

SAFETY DATA SHEET

Additive Antioxidant 168 (AO168)

SUQIAN UNITECHEM CO., LTD

• According to GHS (Seventh Revised Edition)

SDS

Section 1 Product and Company Identification

> Product Identifier

Product Name	Additive Antioxidant 168 (AO168)
Synonyms	-
CAS No.	31570-04-4
EC No.	250-709-6
Molecular Formula	C ₄₂ H ₆₃ O ₃ P

> Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Relevant Identified Uses	Antioxidant
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> Details of the Supplier of the Safety Data Sheet

Applicant Name	SUQIAN UNITECHEM CO., LTD
Applicant Address	22, NANHUA RD, ECOLOGICAL CHEMICAL AND ECHNOLOGY INDUSTIAL PARK, SUQIAN, CHINA
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Supplier Fax	+86-527-84829099
Supplier E-mail	18251509334@163.com

> Emergency Phone Number

Emergency Phone Number	+86-527-84836111
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Section 2 Hazards Identification

> Hazard class and label elements of the product according to GHS:

> GHS Hazard Class

No information available

> GHS Label Elements

No information available

> **Other Hazards**

No information available

Section 3 Composition/Information on Ingredients

Component	Concentration (weight percent, %)	CAS No.	EC No.
Tris(2,4-di-tert-butylphenyl) phosphite	<=100	31570-04-4	250-709-6

Section 4 First Aid Measures

> **Description of First Aid Measures**

General Advice	Remove contaminated clothing.
Eye Contact	Flush eyes with water as a precaution.
Skin Contact	Wash off with soap and plenty of water.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water.
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration.

> **Most Important Symptoms and Effects, both Acute and Delayed**

The most important known symptoms and effects are described in the labelling (see section 2) and/or section 11.

> **Indication of Any Immediate Medical Attention and Special Treatment Needed**

No information available.

Section 5 Fire Fighting Measures

> **Extinguishing Media**

Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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> **Specific Hazards Arising from the Substance or Mixture**

Carbon oxides, Oxides of phosphorus

> **Advice for Firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

> **Further information**

No information available.

Section 6 Accidental Release Measure

> **Personal Precautions, Protective Equipment and Emergency Procedures**

Avoid dust formation. Avoid breathing vapours, mist or gas.
For personal protection see section 8.

> **Environmental Precautions**

No special environmental precautions required.

> **Methods and Materials for Containment and Cleaning Up**

Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7 Handling and Storage

> **Precautions for Handling**

Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.

> **Precautions for Storage**

Keep container tightly closed in a dry and well-ventilated place. Store in cool place.

Section 8 Exposure Controls/Personal Protection

> **Control Parameters**

Occupational Exposure Limit Values

No information available

Biological Limit Values

No information available

Monitoring Methods

No information available

> **Engineering Controls**

General industrial hygiene practice.

> **Personal Protection Equipment**

Eye/Face Protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Skin Protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Section 9 Physical and Chemical Properties

Appearance: White powder

Odor: No information available

Odor Threshold: No information available

pH: No information available

Melting Point/Freezing Point(°C) : 183-187**Flash Point(°C) (Closed Cup):** No information available**Flammability:** The product is not flammable. - Flammability (solids)**Vapor Pressure:** No information available**Relative Density (Water=1):** 1.021 g/cm³ at 20°C**n-Octanol/Water partition Coefficient:** No information available**Decomposition Temperature(°C):** No information available**Particle characteristics:** No information available**Initial Boiling Point and Boiling Range(°C):** >400**Evaporation Rate:** No information available**Upper/lower explosive limits[% (v/v)]:** Upper limit: No information available; Lower limit: No information available**Relative Vapour Density (Air=1):** No information available**Solubility in water:** 0,00009 g/l at 20 °C - insoluble**Auto-Ignition Temperature(°C):** not auto-flammable**Kinematic Viscosity(mm²/s):** No information available

Section 10 Stability and Reactivity

Reactivity No information available**Chemical Stability** Stable under recommended storage conditions.**Possibility of Hazardous Reactions** No information available**Conditions to Avoid Incompatible** No information available**Materials** Strong oxidizing agents, Strong reducing agents**Hazardous Decomposition products** Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No information available.
In the event of fire: see section 5

Section 11 Toxicological Information

> Acute Toxicity

LD50 Oral - Rat - male and female - > 6.000 mg/kg
(OECD Test Guideline 401)LD50 Dermal - Rat - male and female - > 2.000 mg/kg
(OECD Test Guideline 402)

> Skin Corrosion/Irritation

Skin - Rabbit

Result: No skin irritation - 24 h
(OECD Test Guideline 404)

> Serious Eye Damage/Irritation

Eyes - Rabbit

Result: No eye irritation - 30 s
(OECD Test Guideline 405)

> Respiratory Sensitization

- Guinea pig

Result: Does not cause skin sensitisation.
(OECD Test Guideline 406)

> Germ Cell Mutagenicity

No data available
Ames test
S. typhimurium
Result: negative
Mutagenicity (micronucleus test)
Hamster - male and female
Result: negative

> Carcinogenicity

ID	CAS No.	Component	IARC	NTP
1	31570-04-4	Tris(2,4-di-tert-butylphenyl) phosphite	Not listed	Not Listed

> Reproductive Toxicity

No information available

> Reproductive Toxicity (Additional)

No information available

> STOT-Single Exposure

No information available

> STOT-Repeated Exposure

No information available

> Aspiration Hazard

Repeated dose toxicity - Rat - male and female - Oral - No observed adverse effect level \rightarrow 1.000 mg/kg
No adverse effect has been observed in chronic toxicity tests.
RTECS: Not available

Section 12 Ecological Information

> Toxicity

Toxicity to fish

static test LC0 - Danio rerio (zebra fish) - > 100 mg/l - 96 h
(OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates

static test EC50 - Daphnia magna (Water flea) - ca. 510 mg/l - 24 h
(OECD Test Guideline 202)

Toxicity to algae

static test EC50 - Desmodesmus subspicatus (green algae) - > 75mg/l - 72 h
(OECD Test Guideline 201)

Toxicity to bacteria

Respiration inhibition IC50 - Sludge Treatment - > 100 mg/l - 3 h
(OECD Test Guideline 209)

> Others

Persistence and Degradability	Biodegradability aerobic - Exposure time 28 d Result: 6 % - Not readily biodegradable. (OECD Test Guideline 301B)
Bioaccumulative potential	No information available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Additional information	No information available

Section 13 Disposal Considerations

Waste Chemicals Contaminated Packaging	Offer surplus and non-recyclable solutions to a licensed disposal company. Dispose of as unused product.
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Section 14 Transport Information

Transporting Label	Not applicable		
UN Number	ADR/RID:-	IMDG:-	IATA/ICAO:-
UN Proper Shipping Name	ADR/RID :	Not dangerous goods	
	IMDG:	Not dangerous goods	
	IATA/ICAO :	Not dangerous goods	
Transport Hazard Class	ADR/RID :-	IMDG:-	IATA/ICAO :-
Transport Subsidiary Hazard Class	None		
Packing Group	ADR/RID: -	IMDG: -	IATA/ICAO:-
Marine pollutant	ADR/RID: -	IMDG: -	IATA/ICAO: -

Section 15 Regulatory information

> International Chemical Inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Additive Antioxidant 168 (AO168)	✓	✓	✓	✓	✓	✓	✓	✓	✓

- 【EINECS】** European Inventory of Existing Commercial Chemical
【TSCA】 United States Toxic Substances Control Act Inventory
【DSL】 Canadian Domestic Substances List.
【IECSC】 China Inventory of Existing Chemical
【NZIoC】 New Zealand Inventory of Chemicals.
【PICCS】 Philippines Inventory of Chemical Substances
【KECI】 Existing and Evaluated Chemical Substances.
【AICS】 Australia Inventory of Chemical Substances.
【ENCS】 Existing and Evaluated Chemical Substances.

Note

“✓” Indicates that the substance included in the regulations

“x” That no data or included in the regulations

Section 16 Additional Information

Creation Date	2018/1/6
Revision Date	2018/1/6
Reason for Revision	-

> **Disclaimer**

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 7th revised edition). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purpose. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.