

# MATERIAL SAFETY DATA SHEET

Antioxidant 702

## Section 1 - Product and Company Information

Product Name	4,4,-METHYLENEBIS(2,6-DI-TERT-
Product Number	277924
Brand	ALDRICH
Company	Dongguan Baoxu Chemical
Address	Technology..ltd. Room 1118 Caijin business building nancheng district Dongguan City
Technical Phone:	0769-22821082
Fax:	0769-22821083x
Website	www.additivesforpolymer.com
Email	info@additivesforpolymer.com

## Section 2 - Composition/Information on Ingredient

Substance Name	CAS #
4,4-METHYLENEBIS(2,6-DI-TERT-BUTYL -PHENOL)	118-82-1
Formula	C29H44O2
Synonyms	Antioxidant 702 Di(4-hydroxy-3,5-di-tert- butylphenyl)methane 4,4'-Methylenebis(2,6-bis(1,1-dimethylethyl)phenol ) 4,4'-Methylenebis(2,6-di-tert-butylphenol) 4,4'-methylenebis(2,6-di-tert-butyl- * 2,2',6,6'-Tetra-tert-butyl-4,4'-methylenediphenol

## Section 3 - Hazards Identification

EMERGENCY OVERVIEW Irritant.

Irritating to eyes, respiratory system and skin.

HMIS RATING HEALTH: 1

FLAMMABILITY: 0

REACTIVITY: 0

NFPA RATING HEALTH: 1

FLAMMABILITY: 0

REACTIVITY: 0

For additional information on toxicity, please refer to Section 11

## Section 4 First Aid Measures

ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

#### INHALATION EXPOSURE

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen

#### DERMAL EXPOSURE

In case of contact, immediately wash skin with soap and copious amounts of water.

#### EYE EXPOSURE

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

### **Section 5 - Fire Fighting Measures**

FLASH POINT N/A

AUTOIGNITION TEMP N/A

FLAMMABILITY N/A

#### EXTINGUISHING MEDIA

Suitable: Water spray.  
appropriate foam.

#### FIREFIGHTING

Protective Equipment:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s): Emits toxic fumes under fire conditions.

### **Section 6 - Accidental Release Measures**

#### PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

#### METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

### **Section 7 - Handling and Storage**

#### HANDLING

User Exposure: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

#### STORAGE

Suitable: Keep tightly closed.

### **Section 8 - Exposure Controls / PPE**

#### ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

#### PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Use respirators and components tested and approved

under appropriate government standards such as NIOSH (US) or CEN (EU).  
Where risk assessment shows air-purifying respirators are appropriate use a  
dust mask type N95 (US) or type P1 (EN 143) respirator.  
Hand: Compatible chemical-resistant gloves.  
Eye: Chemical safety goggles.

#### GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

### Section 9 - Physical/Chemical Properties

Appearance	Color: Light yellow Form: Fine crystals	
Property	Value At	Temperature or Pressure
Molecular Weight	424.67 AMU	
pH	N/A	
BP/BP Range	289 °C 40	mmHg
MP/MP Range	155 °C	
Freezing Point	N/A	
Vapor Pressure	N/A	
Vapor Density	N/A	
Saturated Vapor Conc.	N/A	
SG/Density	N/A	
Bulk Density	N/A	
Odor Threshold	N/A	
Volatile%	N/A	
VOC Content	N/A	
Water Content	N/A	
Solvent Content	N/A	
Evaporation Rate	N/A	
Viscosity	N/A	
Surface Tension	N/A	
Partition Coefficient	N/A	
Decomposition Temp.	N/A	
Flash Point	N/A	
Explosion Limits	N/A	
Flammability	N/A	
Autoignition Temp	N/A	
Refractive Index	N/A	
Optical Rotation	N/A	
Miscellaneous Data	N/A	
Solubility	N/A	

N/A = not available

---

### Section 10 - Stability and Reactivity

---

#### STABILITY

Stable: Stable.

Materials to Avoid: Strong oxidizing agents.

#### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.

#### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

### Section 11 - Toxicological Information

#### ROUTE OF EXPOSURE

Skin Contact: Causes skin irritation.  
Skin Absorption: May be harmful if absorbed through the skin.  
Eye Contact: Causes eye irritation.  
Inhalation: May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract.  
Ingestion: May be harmful if swallowed.

#### SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### TOXICITY DATA

Oral  
Rat  
> 24000 mg/kg  
LD50

Skin  
Rat  
> 2000 mg/kg  
LD50

Skin  
Rabbit  
> 1400 mg/kg

LD50

---

#### Section 12 - Ecological Information

---

No data available.

---

#### Section 13 - Disposal Considerations

---

#### APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

#### Section 14 - Transport Information

##### DOT

Proper Shipping Name: None  
Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

##### IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

#### Section 15 - Regulatory Information

##### EU ADDITIONAL CLASSIFICATION Symbol of Danger: Xi Indication of

Danger: Irritant.

R: 36/37/38

Risk Statements: Irritating to eyes, respiratory system and skin. S: 26-36

Safety Statements: In case of contact with eyes, rinse

immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

#### US CLASSIFICATION AND LABEL TEXT

Indication of Danger: Irritant.

Risk Statements: Irritating to eyes, respiratory system and skin. Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

#### UNITED STATES REGULATORY INFORMATION SARA

LISTED: No TSCA INVENTORY ITEM: Yes

Yes

#### CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes NDSL: No

### **Section 16 - Other Information**

#### DISCLAIMER

For R&D use only. Not for drug, household or other uses.

#### WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.