

According to Regulation (EC) No 1907/2006

# 2,4-Di-tert-amylphenol



## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Trade name**

2,4-Di-tert-amylphenol

**CAS number**

120-95-6

**EC number**

204-439-0

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses**

Research and development.

**Not suitable for use in**

Not suitable for human consumption or veterinary purposes.

### 1.3. Details of the supplier of the safety data sheet

**Supplier**

Molekula Group

Street address

Molekula Ltd, Lingfield Way, Darlington,  
DL1 4XX Darlington  
United Kingdom

Telephone

+44 (0) 3302 000 333

Email

info@molekula.com

Web site

www.molekula.com

**Contact person**

Kevin Banks

**Email address**

+44 (0) 7769276927

### 1.4. Emergency telephone number

**Poison center/Additional emergency number**

0344 892 0111 - National Poisons Information Service (Newcastle Centre)

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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

#### Classification

Hazardous to the aquatic environment — Chronic hazard category 2

Skin corrosion, hazard category 1B

Acute toxicity, oral, hazard category 4

Skin irritation, hazard category 2

Eye irritation, hazard category 2

#### Hazard statements

H302, H314, H315, H319, H410

#### Supplemental hazard statements

EUH208

### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

#### Hazard pictograms



#### Signal word

Danger

#### Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H410 Very toxic to aquatic life with long lasting effects.

#### Supplemental hazard statements

EUH208 Contains . May produce an allergic reaction.

#### Precautionary statements

P231 + P232 Handle and store contents under inert gas. Protect from moisture.

P260 Do not breathe dust/fumes/gas/mist/vapours/spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P315 Get immediate medical advice/attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

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## 2.3. Other hazards

No data available

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
2,4-Di-tert-amylphenol	120-95-6 204-439-0 - -	100%	Acute Tox. 4 - oral, Skin Corr. 1B, Skin Irrit. 2, Eye Irrit. 2, Aquatic Chronic 2	H302, H314, H315, H319, H410, EUH208 - -	-

### Molecular weight

234.38

### Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Get medical attention if any discomfort continues. Show this Safety Data Sheet (SDS) to medical personnel.

#### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. In case of persistent throat irritation or coughing: Seek medical attention and bring these instructions.

#### Skin contact

IF ON SKIN: Wash with plenty of water. Continue to rinse for at least 15 minutes and seek medical attention. Get medical advice/attention if you feel unwell.

#### Eye contact

Remove contact lenses if present. Rinse eyes with water. Continue to rinse for at least 15 minutes and seek medical attention.

#### Ingestion

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

#### Information for doctors

First aiders/ medical personnel need to protect themselves.

### 4.2. Most important symptoms and effects, both acute and delayed

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

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## **Inhalation**

Single exposure may cause the following adverse effects: Upper respiratory irritation. Difficulty in breathing.

## **Skin contact**

Single exposure may cause the following adverse effects: Severe skin irritation.

## **Eye contact**

Single exposure may cause the following adverse effects: Severe irritation.

## **Ingestion**

Single exposure may cause the following adverse effects: Severe abdominal pain. Nausea, vomiting.

### **4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically. No special treatment requirement.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

In case of fire: Use alcohol resistant foam, carbon dioxide, dry powder or water fog to extinguish.

#### **Unsuitable extinguishing media**

No specific fire fighting procedure given.

### **5.2. Special hazards arising from the substance or mixture**

Specific hazards:

Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO).

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

### **5.3. Advice for firefighters**

#### **Special protective equipment for fire-fighters**

Evacuate area. Avoid breathing gas, fume, vapours or spray. Cool containers exposed to heat with water spray and remove container, if no risk is involved.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Avoid inhalation of dust and contact with skin and eyes. Provide adequate ventilation. For personal protection, see section 8.

### **6.2. Environmental precautions**

Avoid discharge into drains, water courses or onto the ground.

### **6.3. Methods and material for containment and cleaning up**

Collect spillage with shovel, broom or the like and reuse, if possible. Dispose of large amounts of spillage/waste according to agreement with local authorities.

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## 6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Preventive handling precautions

Avoid contact with skin and eyes. Avoid inhalation of dust and vapours. Provide adequate ventilation. Avoid generation and spreading of dust.

#### General hygiene

Observe good chemical hygiene practices. Wash skin thoroughly after handling. For precautions see section 2.2.

### 7.2. Conditions for safe storage, including any incompatibilities

Store at ambient temperature. Store in a dry place. Store in a closed container. Air and moisture sensitive. Store under inert gas.

### 7.3. Specific end use(s)

No specific usage precautions noted.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No data available

### 8.2. Exposure controls

#### Eye / face protection

Wear eye protection.

#### Hand protection

Wear protective gloves. EU 2016/425 / EN-374

Always inspect gloves before use. If signs of wear and tear are noticed then the gloves should be replaced.

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals. Wash contaminated skin thoroughly after handling.

#### Other skin protection

Wash skin thoroughly after handling.

#### Respiratory protection

Provide adequate ventilation. If ventilation is insufficient, suitable respiratory protection must be provided.

#### Environmental exposure controls

Avoid discharge into drains.

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Physical state

Solid

#### Colour

White.

#### Odour

No data available

#### Melting point / freezing point

25 °C - lit.

#### Boiling point or initial boiling point and boiling range

169 - 170 °C at 29 hPa - lit.

#### Flammability

113°C

#### **Method**

CC (Closed cup).

#### Lower and upper explosion limit

No data available

#### Flash point

No data available

#### Auto-ignition temperature

No data available

#### Decomposition temperature

No data available

#### pH

No data available

#### Kinematic viscosity

No data available

#### Solubility

No data available

#### Partition coefficient n-octanol/water

No data available

#### Vapour pressure

No data available

#### Density and/or relative density

0.93 g/cm<sup>3</sup> at 25 °C - lit.

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## Relative vapour density

No data available

## Particle characteristics

No data available

## 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

There are no known reactivity hazards associated with this product.

### 10.2. Chemical stability

Stable under the prescribed storage conditions.

### 10.3. Possibility of hazardous reactions

No data available

### 10.4. Conditions to avoid

No data available

### 10.5. Incompatible materials

Strong oxidising agents.

### 10.6. Hazardous decomposition products

See section 5.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Test animals
2,4-Di-tert-amylphenol 120-95-6 / 204-439-0	LD50	300 mg/kg	Oral	Rat

#### Serious eye damage/irritation

Product / Substance name CAS / EC no.	Result	Value / Dose	Species
2,4-Di-tert-amylphenol 120-95-6 / 204-439-0	Irritating.	100mg	Rabbit

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## Aspiration hazard

Based on available data, the classification criteria are not met.

## 11.2. Information on other hazards

No data available

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Acute fish toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
2,4-Di-tert-amylphenol 120-95-6 / 204-439-0	LC50	0.29 mg/l	96 hours	Oryzias latipes (Red killifish)

#### Acute algae toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
2,4-Di-tert-amylphenol 120-95-6 / 204-439-0	EC50	1.7 mg/l	72 hours	Selenastrum capricornutum

#### Acute crustacean toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
2,4-Di-tert-amylphenol 120-95-6 / 204-439-0	EC50	0.12 mg/l	48 hours	Daphnia magna

### 12.2. Persistence and degradability

No data available

### 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

No data available

### 12.6. Endocrine disrupting properties

No data available



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## 12.7. Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal considerations

Dispose of contents/container in accordance with local/regional/national/international regulations.

## SECTION 14: Transport information

### 14.1. UN number

3077

### 14.2. UN proper shipping name

#### ADR / RID / ADN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,4-Di-tert-amylphenol)

#### IMDG proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,4-Di-tert-amylphenol)

#### IATA proper shipping name

Environmentally hazardous substance, solid, n.o.s. (2,4-Di-tert-amylphenol)

### 14.3. Transport hazard class(es)

#### Label

ADR/RID/ADN



9

Environmental hazard

IMDG



9

IATA



9

Environmental hazard

#### ADR / RID Class

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**ADR / RID Classification code**

M7

**ADR / RID hazard identification number**

90

**IMDG Class**

9

**IATA Class**

9

**ADN Class**

9

**ADN Class Code**

M7

**14.4. Packing group**

ADR / RID / ADN: III

IMDG: III

IATA: III

**14.5. Environmental hazards**

ADR/RID/ADN: Hazardous for the environment

**IMDG EmS**

F-A, S-F

**14.6. Special precautions for user**

Tunnel restriction code: -

Transport category: 3

**14.7. Maritime transport in bulk according to IMO instruments**

IBC Instruction: IBC08

## SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU regulations**

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

**National regulations**

No data available

**15.2. Chemical safety assessment**

No data available

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## SECTION 16: Other information

### Phrase meaning

Aquatic Chronic 2 - Hazardous to the aquatic environment — Chronic hazard category 2

Skin Corr. 1B - Skin corrosion, hazard category 1B

Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4

Skin Irrit. 2 - Skin irritation, hazard category 2

Eye Irrit. 2 - Eye irritation, hazard category 2

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H410 Very toxic to aquatic life with long lasting effects.

EUH208 Contains . May produce an allergic reaction.

EUH208 Contains .?. May produce an allergic reaction.