

Trade name: Butylhydroxytoluenum

Substance number: 062000

Version: 5 / CH

Date revised: 14.03.2023

Replaces Version: 4 / CH

Print date: 14.03.23

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

1.1. Product identifier

Butylhydroxytoluenum

Item No. 06200000

Registration no.

Registration no. 01-2119565113-46-0000

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

Use of the substance/preparation

Raw material for pharmaceutical production and analysis , Chemical for synthesis

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible

for this SDS

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Aquatic Chronic 1 H410

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Warning

Hazard statements

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

P391 Collect spillage.

P501.3 Disposal in compliance with local and national regulations.

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2.3. Other hazards

The Substance does not meet PBT-criteria. This substance does not meet the vPvB-criteria. This substance does not have endocrine disrupting properties with respect to humans. This substance does not have endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients

Hazardous ingredients

2,6-Di-tert-butyl-p-cresol

CAS No. 128-37-0

EINECS no. 204-881-4

Concentration \geq 50 %Classification (Regulation (EC) No. 1272/2008)
Aquatic Chronic 1 H410Concentration limits (Regulation (EC) No. 1272/2008)
Aquatic Chronic M = 1
1

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

If you feel unwell, seek medical advice (show the label where possible).

After inhalation

Remove the casualty into fresh air and keep him calm. Irregular breathing/no breathing: artificial respiration. Seek medical advice immediately.

After skin contact

Wash off immediately with soap and water and rinse well. Seek medical advice immediately.

After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Seek medical advice immediately.

After ingestion

Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. Seek medical advice immediately.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water mist, Alcohol-resistant foam, Dry chemical extinguisher, Carbon dioxide

5.2. Special hazards arising from the substance or mixture

Carbon monoxide (CO); Carbon dioxide (CO₂)

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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Wear protective equipment. Avoid dust formation. Do not inhale vapours. Ensure adequate ventilation.
Do not inhale dust.

6.2. Environmental precautions

Do not empty into drains.

6.3. Methods and material for containment and cleaning up

Take up mechanically and collect in suitable container for disposal.

6.4. Reference to other sections

Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Avoid contact with skin and eyes. Avoid formation of aerosols. Avoid dust formation. Provide suitable exhaust ventilation at processing machines.

7.2. Conditions for safe storage, including any incompatibilities**Storage classes**

Storage class according to TRGS 510	13	Non- combustible solids
Storage category (Switzerland)	11/13	Other solid hazardous substances with classification/labelling hazardous

Further information on storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limit values****2,6-Di-tert-butyl-p-cresol**

List	SUVA	
Type	MAK	
Value	10	mg/m ³
Short term exposure limit	40	mg/m ³
Pregnancy group: S; Remarks: SSc; KG, Leber		

Derived No/Minimal Effect Levels (DNEL/DMEL)**2,6-Di-tert-butyl-p-cresol**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	3.5	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	0.5	mg/kg

Predicted No Effect Concentration (PNEC)

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2,6-Di-tert-butyl-p-cresol

Type of value	PNEC	
Type	Freshwater	
Concentration	0.199	µg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0.0199	µg/l
Type of value	PNEC	
Type	Water	
Conditions	Intermittend	
Concentration	1.99	µg/l
Type of value	PNEC	
Type	Sediment	
Concentration	0.0996	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0.0096	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0.04769	mg/kg

8.2. Exposure controls**General protective and hygiene measures**

Observe the usual precautions for handling chemicals. Wash hands and face before breaks and after work.

Respiratory protection

combination filter A-P2

Hand protection

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

Use	Permanent hand contact
Appropriate Material	nitrile rubber - NBR
Material thickness	0.11 mm
Breakthrough time	480 min

Hand protection must comply with EN 374.

Use	Short-term hand contact
Appropriate Material	nitrile rubber - NBR
Material thickness	0.11 mm
Breakthrough time	480 min

Eye protection

Safety glasses with side protection shield; Eye protection must comply with EN 166.

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

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Physical state	crystals		
Colour	white		
Odour	odourless		
Melting point			
Value	69.8		°C
Boiling point or initial boiling point and boiling range			
Value	265		°C
Pressure	1013	hPa	
Flash point			
Value	127.0		°C
Method	Cleveland open cup - COC		
Ignition temperature			
Value	> 400		°C
Method	440/2008/EC, A.16		
Viscosity			
Value	3.47		mm ² /s
Temperature	80	°C	
Partition coefficient n-octanol/water (log value)			
Reference substance	2,6-Di-tert-butyl-p-cresol		
Vapour pressure			
Value	0		hPa
Temperature	25	°C	
Method	OECD 104		
Density and/or relative density			
Value	1.03		g/cm ³
Temperature	20	°C	
Relative vapour density			
Remarks	No data available		

9.2. Other information**Solubility in water**

Value	0.76		g/l
Temperature	20	°C	
Method	OECD 105		
Remarks	slightly soluble		

Bulk density

Value	450		kg/m ³
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SECTION 10: Stability and reactivity**10.1. Reactivity**

Accumulation of fine dust may entail the risk of a dust explosion in the presence of air. heat

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

Possible incompatibility with materials listed under section 10.5.

10.4. Conditions to avoid

Heat

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10.5. Incompatible materials

Incompatible with acid chlorides and acid anhydrides. Oxidising agents, Bases, Corrodes copper and brass. Acids, Reaction with Sulfuric acid.

10.6. Hazardous decomposition products

In the event of fire the following can be released: Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity (Components)****2,6-Di-tert-butyl-p-cresol**

Species	Rats (male/female)	
LD50	> 6000	mg/kg
Method	OECD 401	

Acute dermal toxicity (Components)**2,6-Di-tert-butyl-p-cresol**

Species	Rats (male/female)	
LD50	> 2000	mg/kg
Method	OECD 402	

Acute inhalative toxicity (Components)**2,6-Di-tert-butyl-p-cresol**

Remarks	No data available.
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Skin corrosion/irritation (Components)**2,6-Di-tert-butyl-p-cresol**

Species	rabbit
Duration of exposure	4 h
evaluation	non-irritant
Method	OECD 404

Serious eye damage/irritation (Components)**2,6-Di-tert-butyl-p-cresol**

Species	rabbit
evaluation	non-irritant
Method	OECD 405

Sensitization (Components)**2,6-Di-tert-butyl-p-cresol**

evaluation	non-sensitizing
Method	in vitro
Source	ECHA

Subacute, subchronic, chronic toxicity (Components)**2,6-Di-tert-butyl-p-cresol**

Remarks	No data available
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Mutagenicity (Components)**2,6-Di-tert-butyl-p-cresol**

Species	Salmonella typhimurium
evaluation	No mutagenicity in the Ames-test.
Remarks	negative

2,6-Di-tert-butyl-p-cresol

Route of exposure	intraperitoneal
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Species mouse
 evaluation No mutagenicity in the micronucleus test.

2,6-Di-tert-butyl-p-cresol

Route of exposure oral
 Species rat (male)
 Remarks negative

Reproduction toxicity (Components)**2,6-Di-tert-butyl-p-cresol**

Remarks No data available.

Carcinogenicity (Components)**2,6-Di-tert-butyl-p-cresol**

Remarks No evidence available on carcinogenicity.

Specific Target Organ Toxicity (STOT) (Components)**2,6-Di-tert-butyl-p-cresol**

Species rat
 NOAEL 25 mg/kg
 Duration of exposure 1 d
 Method Value taken from the literature
 Organs: Liver

11.2 Information on other hazards**Endocrine disrupting properties with respect to humans**

This substance does not have endocrine disrupting properties with respect to humans.

SECTION 12: Ecological information *****12.1. Toxicity****Fish toxicity**

Species *Oryzias latipes*
 LC50 5.3 mg/l
 Duration of exposure 48 h

Fish toxicity (Components)**2,6-Di-tert-butyl-p-cresol**

Species *Oryzias latipes*
 LC50 5.3 mg/l

2,6-Di-tert-butyl-p-cresol

Species zebra fish (*Brachydanio rerio*)
 LC50 >= 0.57 mg/l
 Duration of exposure 96 h

2,6-Di-tert-butyl-p-cresol

Species *Oryzias latipes*
 LC50 5.3 mg/l

2,6-Di-tert-butyl-p-cresol

Species *Micropterus dolomieu*
 NOEC > 23.8
 Duration of exposure 70 d
 Source ECHA

Daphnia toxicity (Components)**2,6-Di-tert-butyl-p-cresol**

EC50 0.48 mg/l
 Duration of exposure 48 h

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Method	OECD 201		
2,6-Di-tert-butyl-p-cresol			
NOEC	0.15		mg/l
Duration of exposure	48	h	
2,6-Di-tert-butyl-p-cresol			
Species	Daphnia magna		
EC50	0.096		mg/l
Duration of exposure	21	d	
Method	OECD 211		

Algae toxicity (Components)

2,6-Di-tert-butyl-p-cresol			
Species	Desmodesmus subspicatus		
ErC50	> 0.4		mg/l
Duration of exposure	72	h	
2,6-Di-tert-butyl-p-cresol			
Species	Desmodesmus subspicatus		
EC10	0.4		mg/l
Duration of exposure	72	h	
2,6-Di-tert-butyl-p-cresol			
ErC50	> 0.24		mg/l
Duration of exposure	72	h	
Method	OECD 201		

Bacteria toxicity (Components)

2,6-Di-tert-butyl-p-cresol			
EC50	1.7		mg/l
2,6-Di-tert-butyl-p-cresol			
EC0	500		mg/l
Duration of exposure	30	min	
2,6-Di-tert-butyl-p-cresol			
Species	activated sludge		
EC50	> 10000		mg/l
Duration of exposure	3	h	
Method	OECD 209		
2,6-Di-tert-butyl-p-cresol			
EC50	1.7		mg/l
2,6-Di-tert-butyl-p-cresol			
EC0	500		mg/l
Duration of exposure	30	min	
2,6-Di-tert-butyl-p-cresol			
Species	activated sludge		
EC50	> 10000		mg/l
Duration of exposure	3	h	

12.2. Persistence and degradability**Physico-chemical eliminability (Components)**

2,6-Di-tert-butyl-p-cresol	
Remarks	No data available.

Biodegradability (Components)

2,6-Di-tert-butyl-p-cresol			
Value	< 10		%
Duration of test	20	d	

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evaluation	not readily degradable
Method	OECD 301D

Ready degradability (Components)**2,6-Di-tert-butyl-p-cresol**

Remarks Not readily biodegradable.

12.3. Bioaccumulative potential**Partition coefficient n-octanol/water (log value)**

Reference substance 2,6-Di-tert-butyl-p-cresol

Octanol/water partition coefficient (log Pow) (Components)**2,6-Di-tert-butyl-p-cresol**

log Pow 5.1

Remarks Due to the distribution coefficient n-octanol/water, accumulation in organisms is possible.

12.4. Mobility in soil**Mobility in soil (Components)****2,6-Di-tert-butyl-p-cresol**

The product is insoluble and sinks in water.

2,6-Di-tert-butyl-p-cresol

Adsorbs on soil.

2,6-Di-tert-butyl-p-cresol

Immobile

12.5. Results of PBT and vPvB assessment**Results of PBT and vPvB assessment *****

The Substance does not meet PBT-criteria.

This substance does not meet the vPvB-criteria.

12.6 Endocrine disrupting properties**Endocrine disrupting properties with respect to the environment**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects**General information / ecology**

Toxic for aquatic organisms.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Dispose of as unused product.

SECTION 14: Transport information

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	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	-		
14.1. UN number	3077	3077	3077
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,6-Di-tert-butyl-p-cresol)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,6-Di-tert-butyl-p-cresol)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,6-Di-tert-butyl-p-cresol)
14.3. Transport hazard class(es)	9	9	9
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 kg		
Transport category	3		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	Marine Pollutant 	 ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

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

Water Hazard Class (Germany)

Water Hazard Class (Germany) WGK 2

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information

Hazard statements listed in Chapter 3

H410 Very toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Aquatic Chronic 1 Hazardous to the aquatic environment, chronic, Category 1

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***

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This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.