according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU

### Butylhydroxytoluene ≥99,7 %, pure

article number: BHT324.1 Version: **2.0 en** 

Replaces version of: 2016-08-23

Version: (1.0)



: Department Health, Safety and Environment

date of compilation: 2016-08-23

Revision: 2021-04-30

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

#### 1.1 Product identifier

Identification of the substance Butylated hydroxytoluene

Article number BHT324.1

Registration number(REACH)

This information is not available.

EC number 204-881-4 CAS number 128-37-0

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

Identified uses: laboratory chemical

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

Laboratoriumdiscounter Zandvoortstraat 75 1976BN Ijmuiden Nederland

Telephone: +31 (0) 255 700 210 e-mail: info@laboratoriumdiscounter.nl Website: www.laboratoriumdiscounter.nl

Competent person responsible for the safety data

sheet

e-mail (competent person) : info@laboratoriumdiscounter.nl

1.4 Emergency telephone number

Emergency information service Poison Centre Munich: +49/(0)89 19240

### SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

### Classification according to Regulation (EC) No 1272/2008 (CLP)

#### Classification acc. to GHS **Section Hazard class** Hazard class and cat-Hazard stateegory ment 4.1A H400 hazardous to the aquatic environment - acute hazard (Aquatic Acute 1) 4.1C (Aquatic Chronic 1) H410 hazardous to the aquatic environment - chronic hazard

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Remarks

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

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Signal word Warning

### **Pictograms**



### **Hazard statements**

H410 Very toxic to aquatic life with long lasting effects.

### **Precautionary statements**

### **Precautionary statements - prevention**

P273 Avoid release to the environment.

### Precautionary statements - response

P391 Collect spillage.

Labelling of packages where the contents do not exceed 125 ml

Signal word: Warning

Symbol(s)



#### 2.3 Other hazards

There is no additional information.

### SECTION 3: Composition/information on ingredients

### 3.1 Substances

EC number

Name of substance Butylated hydroxytoluene

CAS number 128-37-0

Molecular formula C<sub>15</sub>H<sub>24</sub>O

Molar mass 220,4 9/mol

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### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures



#### **General notes**

Take off contaminated clothing.

### Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

### Following skin contact

Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.

### Following eye contact

Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following ingestion

Rinse mouth. Call a doctor if you feel unwell.

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

Symptoms and effects are not known to date

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

none

### **SECTION 5: Firefighting measures**

### 1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings water spray, foam, dry extinguishing powder, carbon dioxide (CO2)

### Unsuitable extinguishing media

water jet

### 2. Special hazards arising from the substance or mixture

Combustible. Vapours are heavier than air, spread along floors and form explosive mixtures with air.

### **Hazardous combustion products**

In case of fire may be liberated: carbon monoxide (CO), carbon dioxide (CO2)

### 3. Advice for firefighters

Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

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

### 1. Personal precautions, protective equipment and emergencyprocedures

#### For non-emergency personnel

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. Do not breathe dust. Avoid contact with skin, eyes and clothes.

#### 2. Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

### 3. Methods and material for containment and cleaning up

### Advices on how to contain a spill

Covering of drains.

#### Advices on how to clean up a spill

Take up mechanically. Control of dust.

### Other information relating to spills and releases

Place in appropriate containers for disposal.

#### 4. Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

### **SECTION 7: Handling and storage**

### 1. Precautions for safe handling

Provision of sufficient ventilation.

### · Measures to prevent fire as well as aerosol and dust generation

Removal of dust deposits.

### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

### 2. Conditions for safe storage, including anyincompatibilities

Store in a dry place.

### Incompatible substances or mixtures

Observe hints for combined storage.

### Consideration of other advice

#### Ventilation requirements

Use local and general ventilation.

### · Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C.

### 3. Specific end use(s)

No information available.

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### SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### **National limit values**

### Occupational exposure limit values (Workplace Exposure Limits)

Coun- try	Name of agent	CAS No	Nota- tion	Identifier	TWA [mg/m³]	STEL [mg/m³]	Source
GB	dust		i	WEL	10		EH40/2005
GB	dust		r	WEL	4		EH40/2005
GB	2,6-di-tert-butyl-p-cresol	128-37-0		WEL	10		EH40/2005

#### Notation

i Inhalable fraction r Respirable fraction

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-

minute period unless otherwisespecified

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8

hours time-weighted average

### Relevant DNELs/DMELs/PNECs and other threshold levels

### · human health values

Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
DNEL	4,4 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
DNEL	18 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
DNEL	4,7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
DNEL	19 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects

### · environmental values

Endpoint	Threshold level	Environmental compartment	Exposure time
PNEC	8,33 <sup>mg</sup> / <sub>kg</sub>	water	short-term (single instance)
PNEC	0,199 <sup>µg</sup> / <sub>l</sub>	freshwater	short-term (single instance)
PNEC	0,02 <sup>µg</sup> / <sub>I</sub>	marine water	short-term (single instance)
PNEC	1,99 <sup>µg</sup> / <sub>l</sub>	water	intermittent release
PNEC	0,17 <sup>mg</sup> / <sub>l</sub>	sewage treatment plant (STP)	short-term (single instance)
PNEC	99,6 <sup>µg</sup> / <sub>kg</sub>	freshwater sediment	short-term (single instance)
PNEC	9,96 <sup>µg</sup> / <sub>kg</sub>	marine sediment	short-term (single instance)
PNEC	47,69 <sup>µg</sup> / <sub>kg</sub>	soil	short-term (single instance)

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### 8.2 Exposure controls

### Individual protection measures (personal protective equipment)







### Eye/face protection

Use safety goggle with side protection.

### Skin protection

### · hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

### · type of material

NBR (Nitrile rubber)

#### material thickness

>0,11 mm

### · breakthrough times of the glove material

>480 minutes (permeation: level 6)

#### other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

#### Respiratory protection

Flammability (solid, gas)

Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P1 (filters at least 80 % of airborne particles, colour code: White).

### **Environmental exposure controls**

Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### **Appearance**

Physical state solid (powder, crystalline)

Colour colourless
Odour odourless

Odour threshold No data available

### Other physical and chemical parameters

pH (value) This information is not available.

Melting point/freezing point 69 - 71 °C

Initial boiling point and boiling range 265 °C at 1.013 hPa
Flash point 127 °C (closed cup)
Evaporation rate no data available

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Non-flammable

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**Explosive limits** 

lower explosion limit (LEL)
 this information is not available this

upper explosion limit (UEL) information is not available these

Explosion limits of dust clouds informationare not available 0,011

Vapour pressure hPa at 20 °C

Density 1,03 g/cm³ at 20 °C

Vapour density 7,61 (air = 1) Bulk density  $450 \, \text{kg/m}^3$ 

Relative density Information on this property is not available.

Solubility(ies)

Water solubility  $0.76 \, \mathrm{mg/l}$  at 20 °C

Partition coefficient

n-octanol/water (log KOW) 5,1 (ECHA)
Soil organic carbon/water (log KOC) 4,363 (ECHA)

Auto-ignition temperature 345 °C

Decomposition temperature no data available

Viscosity not relevant (solidmatter)

Explosive properties Shall not be classified as explosive

Oxidising properties none

9.2 Other information

Temperature class (EU, acc. to ATEX)

T2 (Maximum permissible surface temperature

on the equipment: 300°C)

### SECTION 10: Stability and reactivity

#### Reactivity

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

### 2. Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 3. Possibility of hazardous reactions

<u>Violent reaction with:</u> Alkalis, Bases, Oxidisers, Peroxides, Acid chlorides, inorganic, Sulphuric acid, Strong acid

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#### 4. Conditions to avoid

Direct light irradiation.

### 5. Incompatible materials

copper, Steel

### 6. Hazardous decomposition products

Hazardous combustion products: see section 5.

### SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### **Acute toxicity**

Shall not be classified as acutely toxic.

Exposure route	Endpoint	Value	Species	Source
oral	LD50	>2.930 <sup>mg</sup> / <sub>kg</sub>	rat	ECHA
dermal	LD50	>2.000 <sup>mg</sup> / <sub>kg</sub>	rat	ECHA

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

### Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant

### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

#### **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

### Symptoms related to the physical, chemical and toxicological characteristics

#### If swallowed

data are not available

#### If in eyes

data are not available

#### If inhaled

data are not available

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#### • If on skin

data are not available

#### Other information

Liver and kidney damage, Headache, Unconsciousness, Vertigo

### SECTION 12: Ecological information

### 12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

### Aquatic toxicity (acute)

Very toxic to aquatic organisms.

Endpoint	Value	Species	Source	Exposure time
LC50	0,199 <sup>mg</sup> / <sub>l</sub>	fish	ECHA	96 h
EC50	0,48 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	ECHA	48 h
ErC50	>0,4 <sup>mg</sup> / <sub>I</sub>	algae	ECHA	72 h

### **Aquatic toxicity (chronic)**

May cause long-term adverse effects in the aquatic environment.

Endpoint	Value	Species	Source	Exposure time
EC50	>0,39 <sup>mg</sup> / <sub>I</sub>	aquatic invertebrates	ECHA	21 d
LOEC	0,14 <sup>mg</sup> / <sub>l</sub>	fish	ECHA	42 d
NOEC	0,053 <sup>mg</sup> / <sub>l</sub>	fish	ECHA	42 d

### 12.2 Process of degradability

Not readily biodegradable.

Theoretical Oxygen Demand: 2,977 <sup>mg</sup>/<sub>mg</sub> Theoretical Carbon Dioxide: 2,996 <sup>mg</sup>/<sub>mg</sub>

Process	Degradation rate	Time
biotic/abiotic	<10 %	20 d

### 12.3 Bioaccumulative potential

The substance fulfils the very bioaccumulative criterion.

n-octanol/water (log KOW) 5,1

BCF 598,4

12.4 Mobility in soil

Henry's law constant 0,418 Pa m³/mol at 25 °C

The Organic Carbon normalised adsorption 4,363

coefficient

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#### 5. Results of PBT and vPvB assessment

Data are not available.

#### 6. Other adverse effects

Data are not available.

### **SECTION 13: Disposal considerations**

#### 1. Waste treatment methods

This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

#### Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used.

#### 2. Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

#### 3. Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

### **SECTION 14: Transport information**

1. UN number **3077** 

2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

SOLID, N.O.S.

Hazardous ingredients Butylated hydroxytoluene

**14.3** Transport hazard class(es)

Class 9 (miscellaneous dangerous substances and articles) (envir-

onmentally hazardous)

4. Packing group III (substance presenting low danger)

5. Environmental hazards hazardous to the aquatic environment

#### 6. Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

### 7. Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

#### 8. Information for each of the UN Model Regulations

### Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

UN number 3077

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

SOLID, N.O.S.

Particulars in the transport document UN3077, ENVIRONMENTALLY HAZARDOUS SUB-

9

STANCE, SOLID, N.O.S., (Butylated hydroxytolu-

ene), 9, III, (-)

Class

Classification code M7

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Packing group III

Danger label(s) 9 + "fish and tree"



Environmental hazards yes (hazardous to the aquatic environment)

Special provisions (SP) 274, 335, 375, 601

Excepted quantities (EQ) E1

Limited quantities (LQ) 5 kg

Transport category (TC) 3

Tunnel restrictioncode (TRC) 
Hazard identification No 90

Emergency Action Code 27

### • International Maritime Dangerous Goods Code (IMDG)

UN number 3077

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

SOLID, N.O.S.

Particulars in the shipper's declaration UN3077, ENVIRONMENTALLY HAZARDOUS SUB-

STANCE, SOLID, N.O.S., (Butylated hydroxytolu-

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ene), 9, III

Class 9

Marine pollutant yes (hazardous to the aquatic environment)

Packing group III

Danger label(s) 9 + "fish and tree"



Special provisions (SP) 274, 335, 966, 967, 969

Excepted quantities (EQ) E1
Limited quantities (LQ) 5 kg
EmS F-A, S-F

Stowage category A

### International Civil Aviation Organization (ICAO-IATA/DGR)

UN number 3077

Proper shipping name Environmentally hazardous substance, solid,

n.o.s.

Particulars in the shipper's declaration UN3077, Environmentally hazardous substance,

solid, n.o.s., (Butylated hydroxytoluene), 9, III

Class 9

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Environmental hazards yes (hazardous to the aquatic environment)

Packing group III

9 + "fish and tree"

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Special provisions (SP) A97, A158, A179, A197, 274

Excepted quantities (EQ) E1

Limited quantities (LQ) 30 kg

### SECTION 15: Regulatory information

 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

• Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC) Not listed.

• Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)

Not listed.

Regulation 850/2004/EC on persistent organic pollutants (POP)

Not listed.

List of substances subject to authorisation (REACH, Annex XIV)
 not listed

Seveso Directive

2012/18/EU (Seveso III)				
No	Dangerous substance/hazard categories	Qualifying quantity ( plication of lower a quirem	nd upper-tier re-	Notes
E1	environmental hazards (hazardous to the aquatic environment, cat. 1)	100	200	56)

#### Notation

56) Hazardous to the Aquatic Environment in category Acute 1 or Chronic 1

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

not listed

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

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## Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

not listed

#### **National inventories**

Substance is listed in the following national inventories:

- EINECS/ELINCS/NLP (Europe)
- REACH (Europe)

### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

### SECTION 16: Other information

### 16.1 Indication of changes (revised safety datasheet)

Section	Former entry (text/value)	Actual entry (text/value)
8.1		•environmental values: change in the listing (table)
14.8	Particulars in the transport document: UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (Butylated hydroxytoluene), 9, III, (E)	Particulars in the transport document: UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (Butylated hydroxytoluene), 9, III, (-)
14.8	Tunnel restriction code (TRC):	Tunnel restriction code (TRC):
14.8		•International Civil Aviation Organization (ICAO-IATA/DGR)
14.8		UN number: 3077
14.8		Proper shipping name: Environmentally hazardous substance, solid, n.o.s.
14.8		Particulars in the shipper's declaration: UN3077, Environmentally hazardous substance, solid, n.o.s., (Butylated hydroxytoluene), 9, III
14.8		Class : 9
14.8		Environmental hazards: yes (hazardous to the aquatic environment)
14.8		Packing group: III9 + "fish and tree"
14.8		Packing group: change in the listing (table)
14.8		Special provisions (SP): A97, A158, A179, A197, 274
14.8		Excepted quantities (EQ): E1
14.8		Limited quantities (LQ): 30 kg

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### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations	
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)	
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)	
BCF	bioconcentration factor	
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)	
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures	
CMR	Carcinogenic, Mutagenic or toxic for Reproduction	
DGR	Dangerous Goods Regulations (see IATA/DGR)	
DMEL	Derived Minimal Effect Level	
DNEL	Derived No-Effect Level	
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)	
EINECS	European Inventory of Existing Commercial Chemical Substances	
ELINCS	European List of Notified Chemical Substances	
EmS	Emergency Schedule	
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations	
IATA	International Air Transport Association	
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)	
ICAO	International Civil Aviation Organization	
IMDG	International Maritime Dangerous Goods Code	
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")	
NLP	No-Longer Polymer	
PBT	Persistent, Bioaccumulative and Toxic	
PNEC	Predicted No-Effect Concentration	
REACH	Registration, Evaluation, Authorisation and Restric tion of Chemicals	
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)	
STEL	short-term exposure limit	
TWA	time-weighted average	
vPvB	very Persistent and very Bioaccumulative	
WEL	workplace exposure limit	

- Key literature references and sources for data
   Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EUGHS)

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### List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H400	very toxic to aquatic life
H410	very toxic to aquatic life with long lasting effects

### **Disclaimer**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-upmaterial.

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