according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: May 07, 2019

1 Identification	
· Product identifier	
 Trade name: <u>Butylated Hydroxy Toluene</u> Product code: S25212 CAS Number: 128-37-0 	
 Recommended use and restriction on use Recommended use: Laboratory chemicals Restrictions on use: No relevant information available. 	
 Details of the supplier of the Safety Data Sheet Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 Phone: (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com Distributor: Fisher Science Education 6771 Silver Crest Road Nazareth, PA 18064 (800) 955-1177 	
 Emergency telephone number: ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International) 	

2 Hazard(s) identification

[•] Classification of the substance or mixture

The substance is not classified as hazardous according to the Globally Harmonized System (GHS).

[·] Label elements

The product is not classified as hazardous according to OSHA GHS regulations within the United States. • **GHS label elements** Not regulated.

· Hazard pictograms: None.

· Signal word: None

· Hazard statements: None.

· Precautionary statements: None.

· Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

[•] Chemical characterization: Substances

· CAS No. Description

128-37-0 2,6-di-tert-butyl-p-cresol

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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Trade name: Butylated Hydroxy Toluene

(Cont'd. of page 1)

4 First-aid measures Description of first aid measures · General information: No special measures required. • After inhalation: Supply fresh air; consult doctor in case of complaints. · After skin contact: Brush off loose particles from skin. Wash with soap and water. If skin irritation is experienced, consult a doctor. · After eye contact: Protect unharmed eye. Remove contact lenses if worn. Rinse opened eve for several minutes under running water. If symptoms persist, consult a doctor. · After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help. Most important symptoms and effects, both acute and delayed: Gastric or intestinal disorders when ingested. Nausea in case of ingestion. · Danger: No relevant information available. Indication of any immediate medical attention and special treatment needed: If medical advice is needed, have product container or label at hand.

5 Fire-fighting measures

- [·] Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- For safety reasons unsuitable extinguishing agents: No relevant information available.
- Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- [•] Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation.
- Environmental precautions

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for containment and cleaning up

Pick up manually.

Sweep up and place into an appropriate container.

Dispose of the collected material according to regulations.

Reference to other sections

(Cont'd. on page 3)

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(Cont'd. of page 2)

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 Handling and storage

[·] Handling

- · Precautions for safe handling: No special measures required.
- · Information about protection against explosions and fires: No special measures required.

· Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Protect from humidity and water.

Due to photo-sensitivity, store product in brown-glass or stainless steel receptacles.

- Information about storage in one common storage facility:
- Store away from foodstuffs.

Do not store together with alkalis (caustic solutions).

Store away from oxidizing agents.

Store away from reducing agents.

Do not store together with acids.

• Further information about storage conditions:

Keep containers tightly sealed.

Store in dry conditions.

Specific end use(s) No relevant information available.

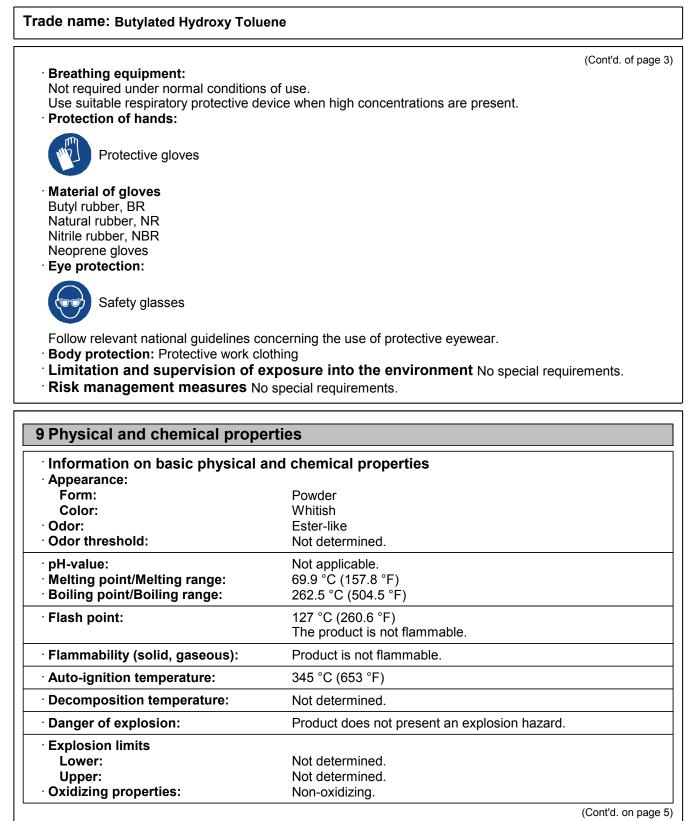
8 Exposure controls/personal protection

· Control parameters

Components with limit values that require monitoring at the workplace: 128-37-0 2,6-di-tert-butyl-p-cresol					
					REL (USA)
TLV (USA)	Long-term value: 2* mg/m³ *as inhalable fraction and vapor				
EL (Canada)	Long-term value: 2 mg/m³ vapour and inhalable aerosol				
EV (Canada)	Long-term value: 2 mg/m³ inhalable, vapour and aerosol				
LMPE (Mexico)	Long-term value: 2 mg/m³ A4, IFV				
Exposure cor	ntrols				
· General protective and hygienic measures:					
The usual precautionary measures for handling chemicals should be followed.					
	n foodstuffs, beverages and feed. fore breaks and at the end of work.				
	ontrols: Provide adequate ventilation.				
		(Cont'd. on page 4			

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Vapor pressure at 20 °C (68 °F):	0.02 hPa (0 mm Hg)	
Density at 20 °C (68 °F):	1.05 g/cm³ (8.76 lbs/gal)	
Relative density:	Not determined.	
Vapor density:	Not applicable.	
Evaporation rate:	Not applicable.	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/wat	er): Not determined.	
Viscosity		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Other information	No relevant information available.	
Stability and reactivity		
Stability and reactivity		

- Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored according to specifications.

[•] Possibility of hazardous reactions

Toxic fumes may be released if heated above the decomposition point.

Reacts with strong oxidizing agents.

Reacts with strong acids.

Reacts with alkali (lyes).

Reacts with reducing agents.

Conditions to avoid

Excessive heat.

Moisture.

Incompatible materials

Alkalis. Acids.

Reducing agents.

Oxidizers

Hazardous decomposition products

Under fire conditions only: Carbon monoxide and carbon dioxide Benzene

11 Toxicological information

· Information on toxicological effects

• Acute toxicity: Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:

128-37-0 2,6-di-tert-butyl-p-cresol

(Cont'd. on page 6)

Safety Data Sheet according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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ide name	: Butylated Hydroxy Toluene
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Oral LD5	0 >6000 mg/kg (rat)
	rritant effect:
	kin: Based on available data, the classification criteria are not met.
	re: Based on available data, the classification criteria are not met.
	tion: Based on available data, the classification criteria are not met.
IARC (Int	ernational Agency for Research on Cancer):
NTP (Nat	ional Toxicology Program):
•	e is not listed.
OSHA-C	(Occupational Safety & Health Administration):
	e is not listed.
	route(s) of exposure:
Ingestion	
Inhalatior	
Eye conta	
Skin cont	
	ects (acute toxicity, irritation and corrosivity): No relevant information available.
	I dose toxicity: No relevant information available.
	I mutagenicity: Based on available data, the classification criteria are not met. enicity: Based on available data, the classification criteria are not met.
Carcine	
Reprodu	ctive toxicity: Based on available data, the classification criteria are not met.
Reprodu STOT-sir	
Reprodu STOT-sir STOT-re	ctive toxicity: Based on available data, the classification criteria are not met. gle exposure: Based on available data, the classification criteria are not met.
Reprodu STOT-sin STOT-re Aspiratio	ctive toxicity: Based on available data, the classification criteria are not met. igle exposure: Based on available data, the classification criteria are not met. beated exposure: Based on available data, the classification criteria are not met. in hazard: Based on available data, the classification criteria are not met.
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Reprodu STOT-sin STOT-re Aspiratio	ctive toxicity: Based on available data, the classification criteria are not met. in hazard: Based on available data, the classification criteria are not met. cal information oxicity to aquatic life with long lasting effects. 2,6-di-tert-butyl-p-cresol mg/l (fish) 8 mg/l (daphnia)
Reprodu STOT-sin STOT-re Aspiratio	ctive toxicity: Based on available data, the classification criteria are not met. togle exposure: Based on available data, the classification criteria are not met. n hazard: Based on available data, the classification criteria are not met. n hazard: Based on available data, the classification criteria are not met. cal information oxicity to aquatic life with long lasting effects. 2,6-di-tert-butyl-p-cresol mg/l (fish) 8 mg/l (daphnia) nce and degradability No relevant information available. nulative potential: No relevant information available.
Reprodu STOT-sin STOT-re Aspiration Ecolog Toxicity Aquatic 1 Very toxic 128-37-0 LC50 1.2 EC50 0.4 Persiste Bioaccur	ctive toxicity: Based on available data, the classification criteria are not met. togle exposure: Based on available data, the classification criteria are not met. togle exposure: Based on available data, the classification criteria are not met. n hazard: Based on available data, the classification criteria are not met. cal information oxicity to aquatic life with long lasting effects. 2,6-di-tert-butyl-p-cresol mg/l (fish) 8 mg/l (daphnia) nce and degradability No relevant information available.
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Reprodu STOT-sin STOT-re Aspiration ECOlog Toxicity Aquatic 1 Very toxic 128-37-0 LC50 1. EC50 0.4 Persiste Bioaccur Mobility Ecotoxic Remark: Addition General Do not all Danger to Very toxic	<pre>ctive toxicity: Based on available data, the classification criteria are not met. agle exposure: Based on available data, the classification criteria are not met. hazard: Based on available data, the classification criteria are not met. hazard: Based on available data, the classification criteria are not met. hazard: Based on available data, the classification criteria are not met. cal information cal information available. cal information available. cal effects: Very toxic for fish cal ecological information cotes: cov product to reach ground water, water course or sewage system. cal information available. cal effects: cover product to reach ground water, water course or sewage system. cal effects: cal effects: cover product to reach ground water, water course or sewage system. cal effects: cal eff</pre>

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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13 Disposal considerations

[•] Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

[·] Uncleaned packagings

• Recommendation: Disposal must be made according to official regulations.

14 Transport information	
· UN-Number · DOT, ADR/RID/ADN, IMDG, IATA	UN3077
[·] UN proper shipping name · DOT	Environmentally hazardous substance, solid, n.o.s. (2,6-di-tert-butyl-p-cresol)
· ADR/RID/ADN · IMDG, IATA	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)
· Transport hazard class(es)	
· DOT, IMDG	
· Class · Label	9 9
· ADR/RID/ADN, IATA	9
· Class · Label	9 9
 Packing group DOT, ADR/RID/ADN, IMDG, IATA 	III
· Environmental hazards	Not applicable.
• Special precautions for user	Warning: Miscellaneous dangerous substances and articles
	(Cont'd. on page 8

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

15 Regulatory information

 Safety, health and environmental regulations/legislation specific for the substance or mixture United States (USA) SARA
· Section 302 (extremely hazardous substances):
Substance is not listed.
· Section 355 (extremely hazardous substances):
Substance is not listed.
· Section 313 (Specific toxic chemical listings):
Substance is not listed.
· TSCA (Toxic Substances Control Act)
All ingredients are listed or exempt.
· Proposition 65 (California)
· Chemicals known to cause cancer:
Substance is not listed.
· Chemicals known to cause developmental toxicity for females:
Substance is not listed.
· Chemicals known to cause developmental toxicity for males:
Substance is not listed.
· Chemicals known to cause developmental toxicity:
Substance is not listed.
· EPA (Environmental Protection Agency):
Substance is not listed.
· IARC (International Agency for Research on Cancer):
3
· Canadian Domestic Substances List (DSL): (Substances not listed.)
Substance is listed.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation

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Trade name: Butylated Hydroxy Toluene

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IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent OSHA: Occupational Safety & Health Administration · Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com