

Safety Data Sheet 2701126

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 10/26/2017 Revision date: 09/11/2019 Version: 1.2

SECTION 1: Identification 1.1. Identification Product form : Substance Substance name : 2,6-Di-tert-butyl-4-methylphenol CAS No ÷ 128-37-0 Product code : 2701-1-26 Formula : C15H24O Synonyms : BHT : MFCD00011644 Other means of identification Relevant identified uses of the substance or mixture and uses advised against 1.2. : Laboratory chemicals Use of the substance/mixture Manufacture of substances Scientific research and development

1.3. Details of the supplier of the safety data sheet

SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs.com

Emergency telephone number 1.4.

Emergency number

: (844) 523-4086 (3E Company - Account 10069)

SECTION 2: Hazard(s) identification 2.1. **Classification of the substance or mixture**

Classification (GHS-US)

· · · · · · · · · · · · · · · · · · ·		
Acute Tox. 4 (Oral)	H302 -	Harmful if swallowed
Skin Irrit. 2	H315 -	Causes skin irritation
Eye Irrit. 2A	H319 -	Causes serious eye irritation
Skin Sens. 1	H317 -	May cause an allergic skin reaction
STOT SE 3	H335 -	May cause respiratory irritation
Aquatic Acute 1	H400 -	Very toxic to aquatic life
Aquatic Chronic 1	H410 -	Very toxic to aquatic life with long lasting effects

Full text of H-phrases: see section 16

2.2. Label elements **GHS-US** labeling

Hazard pictograms (GHS-US)

	GHS07 GHS09		
Signal word (GHS-US)	: Warning		
Hazard statements (GHS-US)	 H302 - Harmful if swallowed H315 - Causes skin irritation H317 - May cause an allergic sk H319 - Causes serious eye irrita H335 - May cause respiratory irr H410 - Very toxic to aquatic life 	tion tation	
Precautionary statements (GHS-US)	P273 - Avoid release to the envir P280 - Wear protective gloves/p	er handling e when using this product well-ventilated area ng must not be allowed out of the workplac ronment rotective clothing/eye protection/face protect a POISON CENTER or doctor/ physician if	ction
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		P304+P340 - If inhaled: Remove per P305+P351+P338 - If in eyes: Rinse lenses, if present and easy to do. Co P312 - Call a POISON CENTER or of P321 - Specific treatment (see suppl P330 - Rinse mouth P332+P313 - If skin irritation occurs: P333+P313 - If skin irritation or rash P337+P313 - If eye irritation persists P362+P364 - Take off contaminated P363 - Wash contaminated clothing I P391 - Collect spillage P403+P233 - Store in a well-ventilate P405 - Store locked up P501 - Dispose of contents/container	cautiously with water ntinue rinsing loctor/physician if you emental first aid instru- Get medical advice/at occurs: Get medical advice/a clothing and wash it b before reuse ed place. Keep contain	for several minutes. Remove contact feel unwell ctions on this label) tention dvice/attention ttention efore reuse
2.3.	Other hazards			
	ditional information available			
2.4.	Unknown acute toxicity (GHS US)			
	pplicable			
SEC	TION 3: Composition/information	on on ingredients		
3.1.	Substance			
Subst	ance type	: Mono-constituent		
Nam	e	Product identifier	%	Classification (GHS-US)
	i-tert-butyl-4-methylphenol constituent)	(CAS No) 128-37-0	<= 100	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Full te	xt of H-phrases: see section 16	· · · · ·	·	· · · · · · · · · · · · · · · · · · ·
3.2.	Mixture			
Not ap	plicable			
SEC	TION 4: First aid measures			
4.1.	Description of first aid measures			
First-a	id measures general	: In case of accident or if you feel unw where possible). Move the affected p		
First-a	id measures after inhalation	: Remove person to fresh air and keep respiration. Get medical advice/atten		hing. If not breathing, give artificial
First-a	id measures after skin contact	: Wash with plenty of soap and water.	Get medical advice/at	tention.
First-a	id measures after eye contact	: Immediately flush eyes thoroughly w present and easy to do. Continue rin		

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First-aid	measures after ingestion :	Do NOT induce vomiting. mouth out with water. Ge	0,0,	mouth to an unconscious person. n.	. Rinse
4.2.	Most important symptoms and effects,	both acute and delayed			
Sympton	me/injurioe	The most important know	in symptoms and effects	are described in the labelling (se	o coctiv

st important known symptoms and effects are described in the labelling (see section Symptoms/injuries 2.2) and/or in section 11.

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

Treat symptomatically.

SECT	ION 5: Firefighting measures	
5.1.	Extinguishing media	
Suitable	extinguishing media	: Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.
5.2.	Special hazards arising from the se	ubstance or mixture
Fire haz	ard	: Thermal decomposition generates: Carbon oxides.
5.3.	Advice for firefighters	
Firefight	ing instructions	: In case of fire: Evacuate area.

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Protection during firefighting		: Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".		
SECTION 6: Accidental r	elease measures			
6.1. Personal precautions	, protective equipment and emergency proce	edures		
General measures	: Evacuate unnecessary pers	onnel. Ensure adequate air ventilation. Do not breathe dust.		
6.1.1. For non-emergency p	ersonnel			
Emergency procedures		: Only qualified personnel equipped with suitable protective equipment may intervene.		
6.1.2. For emergency respo	nders			
Protective equipment	: Do not attempt to take action	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
6.2. Environmental preca	utions			
Avoid release to the environment	. Notify authorities if product enters sewers or p	ublic waters.		
6.3. Methods and materia	for containment and cleaning up			
For containment	: Stop leak if safe to do so.			
Methods for cleaning up		appropriate container for disposal. Minimize generation of dust.		
Other information	: For disposal of solid materia	Is or residues refer to section 13 : "Disposal considerations".		
6.4. Reference to other se				
No additional information availab	le			
SECTION 7: Handling an	d storage			
7.1. Precautions for safe	Ŭ			
Precautions for safe handling	ventilation of the work statio	: Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes.		
Hygiene measures		: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.		
7.2. Conditions for safe s	orage, including any incompatibilities			
Technical measures	: Comply with applicable regu	lations.		
Storage conditions	: Keep container closed when			
Incompatible materials : Refer to Section 10 on Incompatible Materials.				
Storage area	: Store in dry, cool, well-ventil	ated area.		
SECTION 8: Exposure co	ontrols/personal protection			
8.1. Control parameters				
2,6-Di-tert-butyl-4-methylphe	nol (128-37-0)			
ACGIH	ACGIH TWA (mg/m³)	2 mg/m ³ (inhalable fraction and vapor)		
ACGIH	Remark (ACGIH)	URT irr		
· · ·				
8.2. Exposure controls				
	: Ensure good ventilation of the	ne work station. Emergency eye wash fountains and safety showers		
Appropriate engineering controls	should be available in the im	integrate vicinity of any potential exposure.		
Appropriate engineering controls Hand protection	should be available in the im Protective gloves. 29 CFR 1			
	: Protective gloves. 29 CFR 1			

- : Wear suitable protective clothing.
 - : In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
 - : Safety shoes. 29 CFR 1910.136: Foot Protection.

SECTION 9: Physical and chemical properties Information on basic physical and chemical properties 9.1. Physical state : Solid Appearance : White to pale yellow solid. Color

Respiratory protection

Other information

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Odor	: slight phenolic
Odor threshold	: No data available
рН	: No data available
Melting point	: 69 - 73 °C
Freezing point	: No data available
Boiling point	: 265 °C
Flash point	: 127 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: 0.01 mm Hg (@ 20 °C)
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 1.048 g/ml (@ 20 °C)
Molecular mass	: 220.35 g/mol
Solubility	: Water: 0.6 mg/l (at 25 °C)
Log Pow	: 4.17
Auto-ignition temperature	: 470 °C (dust cloud)
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

9.2. **Other information**

No additional information available

SECTION 10: Stability and reactivity
10.1. Reactivity
No additional information available
10.2. Chemical stability
The product is stable at normal handling and storage conditions.
10.3. Possibility of hazardous reactions
No additional information available
10.4. Conditions to avoid
Keep away from heat, sparks and flame.
10.5. Incompatible materials
Acid chlorides. Acid anhydrides. Strong oxidizing agents.
10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.
SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Oral: Harmful if swallowed.

2,6-Di-tert-butyl-4-methylphenol (128-37-0)	
LD50 oral rat	> 2930 mg/kg
LD50 dermal rat	> 2000 mg/kg
ATE US (oral)	500.000 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.

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Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	 May cause an allergic skin reaction. Not classified Not classified
2,6-Di-tert-butyl-4-methylphenol (128-37-0)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
2,6-Di-tert-butyl-4-methylphenol (128-37-0)	
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BCF fish 1	230 - 2500
	230 - 2500 4.17
BCF fish 1	
BCF fish 1 Log Pow	

No additional information available

13.1. Waste treatment methods	
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	: Recycle the material as far as possible.
SECTION 14: Transport informati	on
Department of Transportation (DOT)	
In accordance with DOT	
Transport document description	: UN3077 Environmentally hazardous substances, solid, n.o.s., 9, III
UN-No.(DOT)	: UN3077
Proper Shipping Name (DOT)	: Environmentally hazardous substances, solid, n.o.s.
Transport hazard class(es) (DOT)	: 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140
Hazard labels (DOT)	: 9 - Class 9 (Miscellaneous dangerous materials)
Packing group (DOT)	: III - Minor Danger
Dangerous for the environment	: Yes
Marine pollutant	: Yes

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Air transport UN-No. (IATA)	: 3077	
Packing group (IMDG)	. III - substances presenting IOV	uanger
Class (IMDG) Packing group (IMDG)	: 9 - Miscellaneous dangerous compounds : III - substances presenting low danger	
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	
UN-No. (IMDG)	: 3077	
Transport by sea		
No additional information available		
TDG		
	: No supplementary information	avaliaນເຮ.
Other information	passenger vessel.	Č.
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) DOT Vessel Stowage Location		d "on deck" or "under deck" on a cargo vessel and on a
49 CFR 173.27)		
DOT Packaging Exceptions (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail	: 155 : No limit	
DOT Packaging Exceptions (49 CFR 173.xxx)	pressure-relief devices or bott instruction and special provisi tank special provision TP3. So	mum shell thickness, maximum allowable working pressure, om outlets are assigned in which case the more stringent tank ons shall apply. Filling limits must be in accordance with portab lids meeting the definition of an elevated temperature material ance with the applicable requirements of this subchapter.
	TP33 - The portable tank instr powdered solids and for solids melting point which are cooled or offered for transport above tanks conforming to the provis	action assigned for this substance applies for granular and which are filled and discharged at temperatures above their and transported as a solid mass. Solid substances transporter heir melting point are authorized for transportation in portable ions of portable tank instruction T4 for solid substances of d substances of packing group II, unless a tank with more
	water-resistant liner.	bag is authorized if transported in a closed transport vehicle.
	13H2, 13H3, 13H4, 13H5, 13I	berboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 1, 13L2, 13L3, 13L4, 13M1 or 13M2). t-proof and water-resistant or must be fitted with a sift-proof an
	IB8 - Authorized IBCs: Metal (plastics (11H1, 11H2, 21H1, 2	11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid 1H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1,
	f. Flexible: 13H2, 13H3, 13H4	13H5, 13L2, 13L3, 13L4, 13M1 and 13M2 (flexible IBCs must r must be fitted with a sift-proof and water resistant liner).
	 c. Composite with plastic inne d. Fiberboard: 11G e. Wooden: 11C, 11D and 111 	receptacle: 11HZ1, 11HZ2, 21HZ1 and 21HZ2
	a. Metal: 11A, 11B, 11N, 21A, b. Rigid plastics: 11H1, 11H2,	21H1 and 21H2
	IBC may not exceed a maxim	im net quantity of 1,000 kg:
	A112 - Notwithstanding the qu	antity limits shown in Column (9A) and (9B) for this entry, the for transportation aboard passenger and cargo-only aircraft. Ea
	time the material is loaded or	ed under this entry, provided there is no free liquid visible at th at the time the packaging or transport unit is closed. Each of when used as bulk packaging.
	335 - Mixtures of solids that a liquids or solids may be classi	e not subject to this subchapter and environmentally hazardou ied as "Environmentally hazardous substances, solid, n.o.s,"
	does not meet the definition for 171.8 of this subchapter, or an	used for a material that poses a hazard to the environment but r a hazardous waste or a hazardous substance, as defined in y hazard class as defined in Part 173 of this subchapter, if it is hazardous by the Competent Authority of the country of origin
		ubstances, liquid or solid, n.o.s.", as appropriate. In addition, fo
DOT Symbols DOT Special Provisions (49 CFR 172.102)	: G - Identifies PSN requiring a	ecnnical name t is not a hazardous waste may be shipped under the shipping
OOT Packaging Bulk (49 CFR 173.xxx)	: 240	

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Proper Shipping Name (IATA)	: Environmentally hazardous substance, solid, n.o.s.
Class (IATA)	: 9 - Miscellaneous Dangerous Goods
Packing group (IATA)	: III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

2,6-Di-tert-butyl-4-methylphenol (128-37-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

2,6-Di-tert-butyl-4-methylphenol (128-37-0)

Listed on the Canadian DSL (Domestic Sustances List)

EU-Regulations

No additional information available

National regulations

2,6-Di-tert-butyl-4-methylphenol (128-37-0)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Japanese Pollutant Release and Transfer Register Law (PRTR Law)
Listed on the Canadian IDL (Ingredient Disclosure List)
Listed on INSQ (Mexican national Inventory of Chemical Substances)
Listed on Turkish inventory of chemical
Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations	
2,6-Di-tert-butyl-4-methylphenol (128-37-0)	
State or local regulations	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

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Full text of H-phrases:	
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
NFPA health hazard NFPA fire hazard NFPA reactivity	 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given. 1 - Must be preheated before ignition can occur. 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids,
	a side and acri a side has the protocol 200 E (Class IIIP)

solids and semi solids having a flash point above 200 F. (Class IIIB)

: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

Physical

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 offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.