SAFETY DATA SHEET

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

1.1 Product identifiers

Product name	2,6-Di-tert-buryl-p-cresol
CAS number	128-37-0
Synonyms	BHT, Butylated Hydroxytoluene, DBPC

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

Identified uses	Laboratory chemicals

1.3 Details of the supplier of the safety data sheet

Company	Lab Alley, LLC 12501 Pauls Valley Road Austin, Texas 78737 U.S.A.
Telephone	512-668-9918
Fax	512-886-4008

1.4 Emergency telephone

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Specific target organ toxicity (single exposure) Target organs - respiratory system	Category 3
Specific target organ toxicity (repeated exposure) Target organs - Liver, Kidney, Blood.	Category 2

2.2 GHS Label elements, including precautionary statements

Pictogram	
Signal Word	Warning
Hazard statements	May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.
Precautionary statements:	
Prevention	Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.
Response	Get medical attention/advice if you feel unwell.
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up
Disposal	Dispose of contents/container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Very toxic to aquatic life with long lasting effects.

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
2,6-Di-tert-buryl-p-cresol	BHT, butylated hydroxytoluene	128-37-0	>95%

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

If inhaled	Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.
In case of skin contact	Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.
In case of eye contact	Rinse immediately with plenty of water, also under the eyelids, for at 15 minutes. Obtain medical attention.
If swallowed	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed
None reasonably foreseeable.

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media — Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media — No information available.

5.2 Specific hazards arising from the substance or mixture
Do not allow run-off from fire fighting to enter drains or water courses. Hazardous combustion products: Carbon monoxide (CO), Carbon dioxide (CO2)

5.3 Special protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demands, MSHA/NIOSH (approved or equivalent) and full protective gear.

5.4 Further information

Flash Point — 127 °C / 260.6 °F

Autoignition Temperature — 345 °C / 653 °F

Explosion limits

Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

NFPA

Health	Flammability	Instability	Physical hazards
2	1	0	N/A

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminated ground water system. Prevent product from entering drains. Local authorities should be advised if significant cannot be contained. See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

6.3 Methods and materials for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

See section 2 for full list of hazard and precaution statements.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions on safe handling

Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

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

Incompatibilities

No information available

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Type	Value
2,6-Di-tert-buryl-p-cresol	PEL	10 mg/m3

US. ACGIH Threshold Limit Values

Component	Type	Value
2,6-Di-tert-buryl-p-cresol	TLV	2 mg/m3

US. NIOSH: Pocket Guide to Chemical Hazards

Component	Type	Value
2,6-Di-tert-buryl-p-cresol	IDLH	10 mg/m3

Biological occupational exposure limits
No information available.

8.2 Exposure controls

Appropriate engineering controls
Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, espicially in confined areas.

Personal protective equipment

Eye/face protection
Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection
Long sleeved clothing.

Respiratory protection
Follow the OSHA respirator regulations found in 19 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Control of environmental exposure
No information available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State	Solid
Appearance	White
Odor	Slight phenolic
Odor Threshold	No information available
pH	No information available
Melting Point/Range	69 - 71 °C / 156.2 - 159.8 °F
Boiling Point/Range	265 °C / 509 °F @ 760 mmHg
Evaporation Rate	127 °C / 260.6 °F
Flammability (solid)	No information available
Flammability or explosive limit	
Upper	No data available
Lower	No data available
Vapor Pressure	0.02 mbar @ 20 °C
Vapor Density	No information available
Density	No information available

Solubility	Soluble in methanol, toluene, and ether.
Partition coefficient; n-octanol/water	No data available
Autoignition Temp	345 °C / 653 °F
Decomposition Temp	No information available
Viscosity	No information available
Molecular Formula	C15H24O
Molecular Weight	220.35
VOC Content(%)	No information available
Oxidizing properties	No information available

9.2 Other safety information
No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity
None known, based on information available.

10.2 Chemical stability
Stable under normal conditions.

10.3 Possibility of hazardous reactions
None under normal processing.

10.4 Conditions to avoid
Incompatible products, excess heat, avoid dust formation

10.5 Incompatible materials
Strong oxidizing agents, strong acids, bases, acid chlorides, acid anhydrides, copper, copper alloys, peroxides.

10.6 Hazardous decomposition products
Carbon monoxide (CO), Carbon dioxide (CO2)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
2,6-Di-tert-buryl-p-cresol	>2000 mg/kg (rat)	>2000 mg/kg (rat)	not listed

Skin corrosion/irritation
No information available

Serious eye damage/eye irritation

No information available

Respiratory or skin sensitization
No information available

Germ cell mutagenicity
Mutagenic effects have occurred in humans. Not mutegenic in AMES Test.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
2,6-Di-tert-buryl-p-cresol	128-37-0	Not listed	Not listed	Not listed	Not listed	Not listed

Specific target organ toxicity - single exposure
Respiratory system

Specific target organ toxicity - repeated exposure
Liver, kidney, blood

Reproductive toxicity
Experiments have shown reproductive toxicity effects on laboratory animals.

Chronic effects
No information available.

11.2 Additional Information
The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

SECTION 12: Ecological information

12.1 Toxicity

Product		Species	Test Results
2,6-Di-tert-buryl-p-cresol	EC50	Freshwater Algae	0.758 mg/L 96 h
	EC50	Freshwater Algae	6 mg/L 72 h
	LC50	Freshwater Fish	0.199 mg/L 96 h
	EC50	Microtox	7.82 mg/L 5 min
	EC50	Microtox	8.57 mg/L 15 min
	EC50	Microtox	8.98 mg/L 30 min
	EC50	Water Flea	>0.31 mg/L 48 h

12.2 Persistence and degradability
Insoluble in water, may persist

12.3 Bio accumulative potential
No information available

12.4 Mobility in soil

Is not likely mobile in the environment due its low water solubility.
log Pow: 4.17

12.5 Results of PBT and vPvB assessment

No information available

12.6 Endocrine disrupting properties

No information available

12.7 Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information

DOT (US)

UN-No	UN3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S.
Hazard Class	9
Packing Group	III

IMDG

UN-No	UN3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S.
Hazard Class	9
Packing Group	III

IATA

UN-No	UN3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S.
Hazard Class	9
Packing Group	III

SECTION 15: Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not listed

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed

SARA 304 Emergency release notification

Not listed

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Listed: Acute Health Hazard, Chronic Health Hazard

SARA 313 (TRI reporting)

Not listed

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Not listed

US state regulations

US. Massachusetts RTK - Substance List

Listed

US. New Jersey Worker and Community Right-to-Know Act

Listed

US. Pennsylvania Worker and Community Right-to-Know Law

Listed

California Proposition 65

Not listed

SECTION 16: Other information

Issue date: 03/09/2010
Revision 1: 07/09/2022

Revision 2: 07/18/2024
Revision 3: 07/03/2025

SECTION 17: Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.