

MATERIAL SAFETY DATA SHEET**2,6-DI-TERT-BUTYL-P-CRESOL**

PRODUCT CODE NUMBER(S): 3580-5

PRODUCT IDENTIFICATION

Chemical Name and Synonyms: 2,6-Di-tert-butyl-p-cresol;
BHT; DBPC; 2,6-Di-tert-butyl-4-methylphenol;
3,5-Di-tert-butyl-4-hydroxytoluene

Chemical Family: Alkyl substituted cresol

Chemical Formula: C₁₅H₂₄O

Product Use: Laboratory reagent

Manufacturer's Name and Address:

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HAZARDOUS INGREDIENTS OF MATERIALS

Ingredients	%	TLV Units	CAS No.
2,6-Di-tert-butyl-p-cresol	>99	10 mg/m ³	128-37-0

PHYSICAL DATA

Physical State: Solid

Odour and Appearance: White or pale yellow crystals, slight phenolic odour.

Odour Threshold (ppm): Not available

Vapour Pressure (mm Hg): 0.01 mm Hg @ 20°C

Vapour Density (Air = 1): 7.6

Evaporation Rate: Not available

Boiling Point (degrees C): 265°C

Melting Point (degrees C): 69° to 70°C

pH: Not available

Specific Gravity: 1.048 @ 20°C

Coefficient of Water/Oil distribution: Not available

SHIPPING DESCRIPTION

UN: Not regulated

T.D.G. Class: Not regulated

Pkg. Group: Not regulated

REACTIVITY DATA

Chemical Stability: Stable

Incompatibility with other substances: Incompatible with acid chlorides, acid anhydrides, bases, brass, copper, copper alloys. May react violently, with increased risk of fire and explosion, with strong oxidizers.

Reactivity: Avoid temperatures above 127°C, generation of dust, all incompatible materials.

Hazardous Decomposition Products: CO, CO₂

FIRE AND EXPLOSION DATA

Flammability: Combustible; can burn if strongly heated. Like most organic solids, can burn if strongly heated, or in contact with ignition source. Fine dust dispersed in air and in the presence of an ignition source is a potential explosion hazard.

Extinguishing Media: Water spray, alcohol foam, dry chemical, carbon dioxide. Use water as spray or fog to cool fire-exposed containers, knock down smoke, dust or vapours, flush material away from fire. Fight fire from upwind, from a safe distance. Firefighters must wear protective equipment (positive-pressure, full face-piece self-contained breathing apparatus) and clothing sufficient to prevent inhalation of dust or fumes and contact with skin and eyes.

Flash Point (Method Used): 127°C (CC)

Autoignition Temperature: 470°C (dust cloud)

Upper Flammable Limit (% by volume): Not available

Lower Flammable Limit (% by volume): Not available

Hazardous Combustion Products: CO_x

Sensitivity to Impact: None identified

Sensitivity to Static discharge: As with most organic powders, mixtures of dust with air may be sensitive under certain conditions, when ignited by an electrostatic or other high-voltage spark, or other ignition source.

TOXICOLOGICAL PROPERTIES AND HEALTH DATA

To the best of our knowledge, the physical, chemical and toxicological properties of this substance have not yet been thoroughly investigated.

Toxicological Data:

LD₅₀: (oral, rat) 890 mg/kg

LC₅₀: Not available

Effects of Acute Exposure to Product:

Inhaled: No information available. May cause irritation to nose throat and upper respiratory tract, with coughing, shortness of breath. May be harmful.

In contact with skin: No information available. May cause irritation, with itching, reddening. May be harmful if absorbed; no information available regarding absorption.

In contact with eyes: No information available. May be irritating, causing redness, tearing, temporary pain.

Ingested: May be irritating to gastrointestinal tract, causing nausea and vomiting. May be harmful.

Effects of Chronic Exposure to Product:

Carcinogenicity: IARC Group 3 (inadequate data for classification as human or animal carcinogen)

Teratogenicity: No human or animal information available

Reproductive Effects: No information available

Mutagenicity: Possible mutagen

CODE: 3580-5

Synergistic Products: *None known***PREVENTIVE MEASURES****Engineering Controls:** *Local exhaust ventilation recommended***Respiratory Protection:** *Dust mask. Approved air-purifying respirator or self-contained breathing apparatus for high concentrations. For exposure above TLV or unknown, as in fire or spill conditions, NIOSH/MSHA approved full face-piece, positive-pressure self-contained breathing apparatus***Eye Protection:** *Chemical safety goggles***Skin Protection:** *Rubber gloves. Other protective clothing, coat, sleeves, coveralls, boots, sufficient to prevent contact.***Other Personal Protective Equipment:** *Safety shower and eye-wash fountain in work area.***Leak and Spill Procedure:** *Eliminate all ignition sources. Ventilate area of spill. Cleanup personnel must be thoroughly trained in the hazards of this material and must wear protective equipment and clothing sufficient to prevent inhalation of dust or fumes, and contact with skin and eyes. Prevent from entering sewers or waterways. Mix with sand or inert absorbent, collect in a manner that does not raise dust, and transfer carefully into labelled, covered container(s) for removal by disposal company. Wash site of spillage thoroughly with water and detergent.***Waste Disposal:** *Follow all federal, provincial and local regulations for disposal.***Handling Procedures and Equipment:** *Workers using this chemical must be trained in its hazards and its safe use, and must wear appropriate protective clothing and equipment. Follow routine safe handling procedures and good house-keeping procedures. Avoid generating dust. Avoid contact with skin and eyes. Use the smallest amount possible for the purpose, in designated areas with adequate ventilation. Keep containers closed when not in use and when empty. Wash thoroughly after handling.***Storage Requirements:** *Store in suitable, labelled containers, in a cool, dry, well-ventilated area, out of direct sunlight. Store away from incompatible material. Keep containers tightly closed when not in use and when empty. Protect from damage.***FIRST AID MEASURES****Specific Measures:****Eyes:** *Flush eyes thoroughly with running water for five to ten (5-10) minutes, or until no trace of chemical remains, holding eyelids open while flushing. Get medical advice if irritation persists.***Skin:** *Remove contaminated clothing. Wear protective gloves to minimize contact during first aid procedures. Brush or wipe off dry material. Flush skin thoroughly with running water until no trace of chemical remains. Get medical attention if irritation develops.***Inhalation:** *Move victim to fresh air. Give oxygen and get medical attention for any breathing difficulty.***Ingestion:** *If victim is alert and not convulsing, rinse mouth thoroughly with water and give 2 to 4 glasses of water to drink to dilute. Do not induce vomiting. Get medical attention. If spontaneous vomiting occurs, rinse mouth and give more water to drink.***REFERENCES USED***Budavari: The Merck Index, 12th ed., 1997**Sax, Lewis: Hawley's Condensed Chemical Dictionary, 11th ed., 1987**Sax: Dangerous Properties of Industrial Materials, 5th ed., 1979**Suppliers' Material Safety Data Sheets***ADDITIONAL INFORMATION****Date Issued:** *July 15, 1991***Revision:** *March 2011***MSDS:** *3580-5***Proposed WHMIS Designation:** *Insufficient information available*

*Prepared by: Caledon Laboratories Ltd. (905) 877-0101
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