



## SAFETY DATA SHEET

### SECTION 01 - IDENTIFICATION

<b>Product Identifier</b>	4-tert-BUTYLCATECHOL
<b>Other identification (Chemical name, Commercial name, Synonymous)</b>	4-TERT-BUTYL CATECHOL; 4-T-BUTYLPYROCATÉCHOL; 4-T-BUTYLCATECHOL; 4-tert-Butylcatechol; (Diméthyl-1,1 éthyl)-4 dihydroxy-1,2 benzène; 4-(1,1-Diméthylethyl)-1,2-benzenediol; 4-TERTIARY BUTYL CATECHOL;
<b>Product code</b>	BP-0214
<b>Chemical formula</b>	$C_{10}H_{14}O_2$
<b>Molar weight</b>	166.22
<b>Recommended use and Restrictions on use</b>	For laboratory, school, commercial or industrial use. Not for medical or household use. Do not use for medical, food or household purposes.
<b>Supplier</b>	LABORATOIRE MAT 610, rue Adanac Québec Québec G1C 7B7 418-660-8666 Mon-Fri 8h-16h www.labmat.com labmat@labmat.com
<b>Emergency phone</b>	418-660-8666 Mon-Fri 8h-16h CENTRE ANTI-POISON DU QUÉBEC 800-463-5060
<b>Date SDS</b>	2025-10-31

## SECTION 02 - HAZARDS IDENTIFICATION

### WHIMS CANADA

- Acute toxicity - Oral - category 4
- Acute toxicity - Dermal - category 4
- Skin corrosion/irritation - Skin corrosion - category 1B
- Respiratory or skin sensitization - Skin sensitize - category 1
- Serious eye damage/eye irritation - Eye irritation - category 1

### PICTOGRAMS



### Signal Word

DANGER

### Hazards statements (H)

- Harmful if swallowed
- Harmful in contact with skin
- Causes severe skin burns and eye damage
- May cause an allergic skin reaction
- Causes serious eye damage

### Precautionary statements (P)

- IF SWALLOWED: Call a POISON CENTER or a physician if you feel unwell.
- Rinse mouth.
- Dispose of contents and container in accordance with local, regional and national regulations, or contact a specialist waste disposal company.
- Wear protective gloves (nitrile, butyl, neoprene), protective clothing and eye and face protection.
- IF ON SKIN: Wash with plenty of water
- Call a POISON CENTER or a doctor or if you feel unwell.
- Do not breathe mists, gases, vapors and other fumes, or the product itself.
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse with water.
- IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- Immediately call a POISON CENTER or a physician.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Store locked up.
- If skin irritation or a rash occurs: Get medical attention.

### Other dangers

NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Significant; 4=Extreme)

**Health** 2  
**Fire** 1  
**Reactivity** 0  
**Special danger**

## SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Component	No. CAS	% Weight
4-Tert-butylcatechol	98-29-3	<=100%

## SECTION 04 - FIRST AID MEASURE

<b>Eye contact</b>	Wash eyes with large amounts of water for at least 15 minutes while holding eyelids apart to rinse eyes. If irritation persists, seek medical attention.
<b>Skin contact</b>	Wash skin with plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation persists, seek medical attention.
<b>Inhalation</b>	Move the unwell person to the fresh air. If breathing is difficult, give oxygen. Consult a physician.
<b>Ingestion</b>	If the person is conscious, give water to drink. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.
<b>Most important symptoms and effects (acute and delayed)</b>	The product is a corrosive material. Main symptoms of high exposure: Chemical burns of the skin, eyes and respiratory and digestive mucous membranes. Skin, eye and respiratory system irritation. The corrosive effect will outweigh the toxicity for the concentrated product. Skin sensitizer. Cough. Breathing difficulties. Headaches. Nausea and vomiting. To our knowledge, the chemical, physical and toxicological properties have not been fully investigated. Ref. section 11.
<b>Immediate medical attention and special treatment, if necessary</b>	Treat according to symptoms. Show this sheet to the attending physician.

## SECTION 05 - FIREFIGHTING MEASURES

<b>Suitable extinguishing media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Unsuitable extinguishing media</b>	Do not use a jet of water.
<b>Combustion products</b>	Hazardous combustion products formed under fire conditions: Carbon oxides.
<b>Specific hazards of the dangerous product</b>	May form combustible dust concentrations in the air. Vapors are heavier than air and may spread along floors. May react violently with incompatible products (Ref Section 10).
<b>Special protective equipment and precautions for firefighters</b>	Discard incompatible substances if this can be done without risk. Firefighters should be equipped with standard protective equipment, fireproof clothing, face mask, gloves, protective boots and, where appropriate, self-contained breathing apparatus.

## SECTION 06 - ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency measures</b>	Cut off all sources of ignition. Avoid dust formation. Avoid breathing dust. Evacuate personnel to safe areas. When handling, wear appropriate safety equipment (reference Section 8 for protective equipment to be used). Ensure a good ventilation. Use NIOSH cartridge respiratory protection if necessary or for larger spills.
<b>Methods and materials for containment and cleaning up</b>	Discharge into the environment must be avoided.

## SECTION 07 - HANDLING AND STORAGE

<b>Conditions for safe storage</b>	Hygroscopique Store in a cool, dry, and well-ventilated place. Keep container tightly closed and store away from heat, water, moisture, and incompatible products (ref. section 10). Keep away from sources of ignition - No smoking. Take measures to prevent the accumulation of electrostatic charges. Keep away from heat and sources of ignition.
<b>Methods of handling</b>	Avoid contact with eyes, skin and clothing. Avoid ingestion and inhalation. Wear personal protective equipment (ref. section 8) when handling. Always ensure good ventilation. Apply the usual standard hygiene rules: Wash your hands after use. Do not eat or drink during use.

## SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### WORKPLACE CONTROL PARAMETERS

Component	CAS-No.	Value
4-Tert-butylcatechol	98-28-3	No occupational exposure limits established by region-specific regulators - Quebec, Alberta, Ontario, British Columbia.

#### Respiratory

If work under the hood is not possible, or if the permissible levels are exceeded, use NIOSH cartridge respiratory protection, or an air-supplied respirator.

#### Gloves

Gloves resistant to basic corrosive materials. Suggested material: Nitrile. Neoprene. Butyl. The type, thickness and length of the glove must be chosen according to the use, the concentration of the product, as well as the duration of use. Replace gloves regularly for better protection.

#### Eyes

Safety goggles with safety shutters. Safety goggles with safety shutters.

#### Shoes

Use safety shoes.

#### Clothes

Labcoat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Engineering control

Use fan. Have safety showers and eyewash stations in the workplace in case of an emergency and a ventilation system to maintain the level of concentrations in the air below the exposure limit values.

## SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	Solid
<b>Color</b>	White
<b>Odour</b>	Phenol like
<b>Odour threshold</b>	1.0 mg/l (detection)
<b>Melting point and freezing point</b>	53-58°C
<b>Boiling point</b>	285°C
<b>Flammability</b>	Combustible
<b>Lower flammable / Explosive limit</b>	Data not available
<b>Upper flammable / Explosive limit</b>	Data not available
<b>Flash point</b>	130°C
<b>Auto-ignition temperature</b>	435°C
<b>Decomposition temperature</b>	Data not available
<b>pH</b>	5.6-6.2 @4.2g/L
<b>Kinematic viscosity</b>	Data not available
<b>Solubility</b>	Soluble in water 4.2 g/L @ 20 °C
<b>Partition coefficient water/n-octanol</b>	1.98 @ 25 °C and pH 5.9
<b>Vapour pressure</b>	0.0028 mmHg
<b>Relative density</b>	1.08 g/cm <sup>3</sup> @ 20 °C
<b>Vapour density</b>	Data not available
<b>Particle characteristics</b>	Flakes

## SECTION 10 - STABILITY AND REACTIVITY

<b>Reactivity</b>	Acid product, reacts strongly with strong bases. Fine dusts of organic materials have the potential to form a combustible or explosive mixture with air if confined in a small space and subjected to an ignition source. May react violently with incompatible substances.
<b>Chemical stability</b>	Hygroscopic. May decompose on exposure to air and moisture.
<b>Possibility of hazardous reactions</b>	May react violently with incompatible substances. May form combustible dust concentrations in the air.
<b>Conditions to avoid</b>	Avoid moisture. Heat, flames and sparks. Avoid contact with incompatible materials.
<b>Incompatible materials</b>	Acids. Alkalis. Strong oxidizers.
<b>Hazardous decomposition products</b>	Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ).

## SECTION 11 - TOXICOLOGICAL INFORMATION

### 4-TERT-BUTYLCATECHOL

<b>Routes of exposure</b>	Ingestion, inhalation, skin and eye contact.
<b>Acute exposition effects / symptoms:</b>	By exposure route below.
- Eyes	Causes serious eye damage.
- Skin	Causes skin burns. To our knowledge, the chemical, physical and toxicological properties have not been fully investigated.
- Inhalation	Cough. Inflammation of the lungs. Breathing difficulties. To our knowledge, the chemical, physical and toxicological properties have not been fully investigated.
<b>Acute toxicity (Ingestion)</b>	Nausea and vomiting. Headaches. To our knowledge, the chemical, physical and toxicological properties have not been fully investigated.
<b>Chronic exposure effects / symptoms</b>	Skin sensitization. To our knowledge, the chemical, physical and toxicological properties have not been fully investigated.
<b>DL50 (specify species and route of entry)</b>	LD50 Oral - Rat - 815 mg/kg. LD50 Dermal - Rat - 1331 mg/kg.
<b>CL50 (specify species and route of entry)</b>	LC50 Inhalation - Data not available.

## SECTION 12 - ECOLOGICAL INFORMATION

### 4-TERT-BUTYLCATECHOL

<b>Ecotoxicity</b>	Toxicity to fish: Semi-static test - Danio rerio (poisson zèbre). 0.12mg/l - 96h. Toxicity to daphnia and other aquatic invertebrates: Semi-static test - EC50 - Daphnia magna (Water flea) - 0.48mg/l - 48h. Toxicity to algae: Static test EC50 - Pseudokirchneriella subcapitata - 10mg/l - 72h.
<b>Persistence and degradability</b>	Biodegradability aerobic - Duration of exposure 28 days - Result: 24.7%. Not readily biodegradable.
<b>Bioaccumulative potential</b>	Data not available.
<b>Mobility in soil</b>	Data not available.
<b>Other adverse effects</b>	Avoid release to the environment.

## SECTION 13 - DISPOSAL CONSIDERATIONS

<b>Waste Disposal Method</b>	Dispose of contents and container in accordance with local, regional and national regulations, or contact a specialist waste disposal company.
<b>Contaminated Packaging</b>	Dispose of as unused product.

## SECTION 14 - TRANSPORT INFORMATION

<b>UN Number</b>	3261
<b>UN Proper shipping name</b>	SOLIDE ORGANIQUE CORROSIF, ACIDE, N.S.A. (4-tert-butylcatéchol).
<b>Transport hazard class(es)</b>	Matières corrosives 8
<b>Packing group</b>	II
<b>Limited quantity index</b>	1 kg
<b>ERAP Index</b>	-
<b>Special precautions</b>	16

## SECTION 15 - REGULATORY INFORMATION

<b>WHIMS CANADA</b>	<ul style="list-style-type: none"><li>- Acute toxicity - Oral - category 4</li><li>- Acute toxicity - Dermal - category 4</li><li>- Skin corrosion/irritation - Skin corrosion - category 1B</li><li>- Respiratory or skin sensitization - Skin sensitize - category 1</li><li>- Serious eye damage/eye irritation - Eye irritation - category 1</li></ul>
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## SECTION 16 - OTHER INFORMATION

CNESST: Commission des normes, de l'équité et de la santé et sécurité au travail

NIH: National institute of health (U.S. National Library of Medicine)

ECHA: Agence Européenne de Chimie

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

VECD: Valeur d'exposition courte durée

VEMP: Valeur d'exposition moyenne pondérée

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TLV : Threshold limit value

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

RSST: Règlement sur la santé et sécurité au travail (Québec)

INRS: l'Institut national de recherche et de sécurité pour la prévention des accidents du travail et des maladies professionnelles (France)

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. Laboratoire MAT Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

**LAST UPDATE: 2025-10-31**