



# p-tert-Butyl Catechol CAS No 98-29-3

# MATERIAL SAFETY DATA SHEET SDS/MSDS

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

1.1 Product identifiers

Product name : p-tert-Butyl Catechol

CAS-No. : 98-29-3

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

Identified uses : Laboratory chemicals, Industrial & for professional use only.

1.3 Details of the supplier of the safety data sheet

Company : Central Drug House (P) Ltd

7/28 Vardaan House Ansari Road Daryaganj New Delhi-110002

**INDIA** 

Telephone : +91 11 49404040

Email : <a href="mailto:care@cdhfinechemical.com">care@cdhfinechemical.com</a>

1.4 Emergency telephone number

Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

## Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 4), H302 Acute toxicity, Dermal (Category 4), H312 Skin corrosion (Category 1B), H314 Skin sensitisation (Category 1), H317 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 2.2 Label elements

# Labelling according Regulation (EC) No 1272/2008

Pictogram

Danger conceive to metals Skin installation assessment

Hazard statement(s)

Signal word

H302 + H312 Harmful if swallowed or in contact with skin Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face

protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. Immediately

P310 call a POISON CENTER/doctor.

P501 Dispose of contents/ container to an approved waste disposal plant.

Supplemental Hazard

Statements

none

## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Formula : C10H14O2

Molecular weight : 166.22 g/mol
CAS-No. : 98-29-3

EC-No. : 202-653-9

# Hazardous ingredients according to Regulation (EC) No 1272/2008

Component Classification Concentration

4-tert-Butylpyrocatechol

CAS-No. 98-29-3 Acute Tox. 4; Skin Corr. 1B; <= 100 %

EC-No. 202-653-9 Skin Sens. 1; Aquatic Acute 1;

Aquatic Chronic 1; H302, H312, H314, H317, H400,

H410

M-Factor - Aquatic Acute: 1

For the full text of the H-Statements mentioned in this Section, see Section 16.

## **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

## In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

## In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

## Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## 5.2 Special hazards arising from the substance or mixture

Carbon oxides

## 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### 5.4 Further information

No data available

#### **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

## 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For disposal see section 13.

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

# 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

hygroscopic

Storage class (TRGS 510): Non-combustible, corrosive hazardous materials

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

## 8.2 Exposure controls

## Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## Personal protective equipment

#### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

a) Appearance Form: flakes

Colour: white

b) Odour phenol-like

c) Odour Thresholdd) pHNo data availableNo data available

u) pii ivo data availai

e) Melting point/freezing point

Melting point/range: 53 - 56 °C Melting point/range: 52 - 58 °C - lit.

f) Initial boiling point and

boiling range

285 °C - lit.

g) Flash pointh) Evaporation rate113 °C - closed cupNo data available

i) Flammability (solid, gas) The product is not flammable. - Flammability (solids)

j) Upper/lower No data available

flammability or

explosive limits

k) Vapour pressure 0.103 - 1.095 Pa at 30.35 - 50.15 °C

I) Vapour density No data available
 m) Relative density 1.08 kg/m3 at 20 °C
 n) Water solubility No data available

o) Partition coefficient: noctanol/water log Pow: 1.98 at 25 °C

p) Auto-ignition 435 °C

temperature at 996 - 1,000 hPa q) Decomposition No data available

temperature

r)

Viscosity No data available

s) Explosive properties Not explosivet) Oxidizing properties No data available

# 9.2 Other safety information

No data available

## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

No data available

#### 10.2 Chemical stability

Stable under recommended storage conditions.

## 10.3 Possibility of hazardous reactions

No data available

#### 10.4 Conditions to avoid

Avoid moisture.

#### 10.5 Incompatible materials

Strong oxidizing agents

## 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

In the event of fire: see section 5

## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - male and female - 815 mg/kg(4-tert-Butylpyrocatechol)

(OECD Test Guideline 401)

LD50 Dermal - Rat - male and female - 1,331 mg/kg(4-tert-Butylpyrocatechol)

(OECD Test Guideline 402)

## Skin corrosion/irritation

Skin - Rabbit(4-tert-Butylpyrocatechol)

Result: Corrosive - 4 h

(OECD Test Guideline 404)

# Serious eye damage/eye irritation

Eyes - Rabbit(4-tert-Butylpyrocatechol)

Result: Corrosive

(OECD Test Guideline 405)

# Respiratory or skin sensitisation

Maximisation Test - Guinea pig(4-tert-Butylpyrocatechol)

Result: May cause sensitisation by skin contact.

(OECD Test Guideline 406)

# Germ cell mutagenicity

Ames test(4-tert-Butylpyrocatechol)

S. typhimurium

Result: negative

Mutagenicity (micronucleus test)(4-tert-Butylpyrocatechol)

Mouse - male and female

Result: negative

## Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

## Reproductive toxicity

No data available(4-tert-Butylpyrocatechol)

# Specific target organ toxicity - single exposure

No data available(4-tert-Butylpyrocatechol)

# Specific target organ toxicity - repeated exposure

No data available

## **Aspiration hazard**

No data available(4-tert-Butylpyrocatechol)

#### **Additional Information**

Repeated dose toxicity - Rat - male and female - Oral - No observed adverse effect level - < 70 mg/kg(4-tert-Butylpyrocatechol)

RTECS: UX1400000

Cough, Shortness of breath, Headache, Nausea, Vomiting(4-tert-Butylpyrocatechol)

# **SECTION 12: Ecological information**

## 12.1 Toxicity

Toxicity to fish semi-static test LC50 - Danio rerio (zebra fish) - 0.12 mg/l - 96 h(4-tert-

Butylpyrocatechol)

(OECD Test Guideline 203)

Toxicity to daphnia and

semi-static test EC50 - Daphnia magna (Water flea) - 0.48 mg/l - 48 h(4-tert-

other aquatic

Butylpyrocatechol)

invertebrates (OECD Test Guideline 202)

Toxicity to algae static test EC50 - Pseudokirchneriella subcapitata - 10.17 mg/l - 72 h(4-tert-

Butylpyrocatechol)

(OECD Test Guideline 201)

Toxicity to bacteria Respiration inhibition EC50 - Sludge Treatment - 16 mg/l - 3 h(4-tert-

Butylpyrocatechol)

(OECD Test Guideline 209)

# 12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d(4-tert-Butylpyrocatechol)

Result: 24.7 % - Not readily biodegradable.

(OECD Test Guideline 310)

## 12.3 Bioaccumulative potential

No data available

#### 12.4 Mobility in soil

No data available(4-tert-Butylpyrocatechol)

# 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

# 12.6 Other adverse effects

Very toxic to aquatic life with long lasting effects.

#### **SECTION 13: Disposal considerations**

# 13.1 Waste treatment methods

#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

# Contaminated packaging

Dispose of as unused product.

## **SECTION 14: Transport information**

14.1 UN number

ADR/RID: 3261 IMDG: 3261 IATA: 3261

14.2 UN proper shipping name

ADR/RID: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (4-tert-Butylpyrocatechol) IMDG: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (4-tert-Butylpyrocatechol)

IATA: Corrosive solid, acidic, organic, n.o.s. (4-tert-Butylpyrocatechol)

14.3 Transport hazard class(es)

ADR/RID: 8 IMDG: 8 IATA: 8

14.4 Packaging group

ADR/RID: II IMDG: II IATA: II

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

No data available

## **SECTION 15: Regulatory information**

**15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

#### **SECTION 16: Other information**

## Full text of H-Statements referred to under sections 2 and 3.

H302	Harmful if swallowed.
H302 + H312	Harmful if swallowed or in contact with skin
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

#### **Further information**

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 applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.