

# Safety Data Sheets

Revision Date: 13-Feb.-2023

## Section 1. Identification of substance

Product Name : para-tertiary-butyl Phenol (PTBP)
Synonyms: 4-t-butylphenol, p-t-butylphenol, p-tert-butylphenol, butylphen, 1-hydroxy-4-tert-butylphenol, 4-(1,1-dimethylethyl)phenol
CAS Number: 98-54-4
Manufacturer/Supplier : TASCOCHEMICAL CORPORATION
Plant Address : Plant Address: 1 kung-Yeh, 2nd Rd., Lin-Yuan, Kaohsiung, Taiwan
Emergency Telephone Numbers +886-07-6411122 /FAX : +886-07-6411125
e-mail: kc-lai@tascogroup.com.tw

## Section 2. Hazards identification

Causes burns. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Hazard Classification :



**Signal Word :** Danger

**Regulation (EC) No 1272/2008 (CLP)**

### Hazard statements:

H315: Causes skin irritation.

H318: Causes serious eye damage.

H361: Suspected of damaging fertility or the unborn child <state specific effect if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H410: Very toxic to aquatic life with long lasting effects.

### Precautionary statements:

P201: Obtain special instructions before use.

P264: Wash... thoroughly after handling. (with plenty of soap and water)

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

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.

P310: Immediately call a POISON CENTER/doctor.

P337+P313: If eye irritation persists: Get medical advice/attention.

P273: Avoid release to the environment.

P391: Collect spillage.

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

## Section 3. Composition/information on ingredients

Chemical Name : para-tertiary-butyl Phenol (PTBP)
Formula : C <sub>10</sub> H <sub>14</sub> O
Synonyms : 4-t-butylphenol, p-t-butylphenol, p-tert-butylphenol, butylphen, 1-hydroxy-4-tert-butylphenol, 4-(1,1-dimethylethyl)phenol
Range % by Wt.:100

## Section 4. First Aid Measures

**Inhalation:**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**Ingestion:**

Do not induce vomiting. Get medical aid immediately. Wash mouth out with water.

**Inhalation:**

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Skin Contact:** Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

## Section 5. Fire Fighting Measures

**General Information:**

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Extinguishing Media:**

Use water spray, dry chemical, carbon dioxide, or chemical foam.

## Section 6. Accidental Release Measures

**General Information:**

Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:**

Store in a cool, dry place. Store in a tightly closed container. Corrosives area.

## Section 7. Handling and Storage

**Handling:**

Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood.

**Storage:**

Store in a cool, dry place. Store in a tightly closed container. Corrosives area.

## Section 8. Exposure Controls, Personal Protection

**Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits**

CAS# 98-54-4:

Germany: 0.08 ppm TWA; 0.5 mg/m<sup>3</sup> TWA Germany: skin notation

Netherlands: 0.1 ppm MAC; 0.5 mg/m<sup>3</sup> MAC

Russia: 0.4 mg/m<sup>3</sup> TWA (aerosol)

**Personal Protective Equipment**

Eyes: Wear chemical splash goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if

## Section 9. Physical /Chemical Properties

Physical State: Flakes	Molecular Weight: 150.22g/mole
Molecular Formula: C10H14O	Freezing/Melting Point: 101 °C
Vapor Pressure:0.0002 psia @20 °C	Boiling Point: 239.5 °C@760mmHg
Autoignition Temperature: 475°C	Flash Point: 125 °C (close cup)
Explosion Limits: 0.8 -5.3 %	Vapor density:5.1
Solubility in water: 0.6 g/l (20°C)	Specific Gravity/Density: 0.9081 (water=1)

## Section 10. Stability and Reactivity

<p>Chemical Stability: Stable under normal temperatures and pressures.</p>
<p><b>Hazardous Polymerization:</b> Will not occur.</p>
<p><b>Incompatibilities:</b> Exposure to moist air or water, bases, acid chlorides, brass, copper, copper alloys, steel, acid anhydrides.</p>
<p><b>Conditions to Avoid:</b> Incompatible materials, exposure to moist air or water.</p>
<p><b>Hazardous Decomposition Products:</b> Carbon monoxide, carbon dioxide.</p>

## Section 11. Toxicological Information

<p>Acute toxicity: LD/ LC50 values that are relevant for classification : Oral LD50 4000 mg/kg (rat) OECD Guide-line 401 Dermal LD50 2288 mg/kg (rabbit) Primary irritant effect: on the skin: Irritant to skin and mucous membranes. on the eye: Strong irritating effect. Sensitization: Not sensitizing (Human Patch Test) Additional toxicological information: Spotty depigmentation at the upper extremities are a sign of exposition resp. intoxication. Risk of skin adsorption. After swallowing: irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.</p>
<p><b>Carcinogenicity:</b> 4-tert-Butylphenol - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.</p>

## Section 12. Ecological Information

<p><b>Ecotoxicity :</b> Aquatic toxicity : EC50 (24 h): ca. 8.1 mg/L test mat. (nominal) based on: mobility EC50 (48 h): ca. 4.8 mg/L test mat. (nominal) based on: mobility (Daphnia sp. Acute Immobilisation Test) EC50/72h 11.2 mg/l (scenedesmus subspicatus) LC50/48h 1.5 mg/l (leuciscus idus) LC50/96h &gt; 1 mg/l (rainbow trout) General notes: Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground</p>
<p><b>Other:</b></p>

Non-biodegradable. Do not empty into drains. log Pow: 2.44

### Section 13. Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

### Section 14. Transport Information

#### Land transport (ADR/RID)

UN number : UN3077

Proper shipping name and description : Environmentally hazardous substance, solid, n.o.s. (p-tert-butylphenol)

Chemical Name : 4-tert. Butylphenol

Class : 9

Packaging group : III

Labels : 9

#### Inland waterway transport (ADN(R))

UN number : UN3077 :

Proper shipping name and description : Environmentally hazardous substance, solid, n.o.s. (p-tert-butylphenol)

Chemical name : 4-tert. Butylphenol

Class : 9

Packaging group :III

Labels :9

Remarks :not available

#### Marine transport (IMDG)

UN number : UN3077

Proper shipping name and description : Environmentally hazardous substance, solid, n.o.s. (p-tert-butylphenol)

Chemical name : 4-tert. Butylphenol

Class : 9

Packaging group : III

Labels : 9

Marine pollutant : yes (P)

#### Air transport ICAO/IATA

UN number : UN3077

Proper shipping name and description : Environmentally hazardous substance, solid, n.o.s. (p-tert-butylphenol)

Chemical name : 4-tert. Butylphenol

Class : 9

Packaging group : III

Labels : 9

### Section 15. Regulatory Information

#### Regulation (EC) No 1272/2008 (CLP)

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## Section 16. Additional Information

Remark	" — " means no data , and " / " means not suitable.
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- ※ This information is only suitable for this product, and It does not suit that if this product is to be a additive agent or mixed with other chemicals.
- ※ The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.