

Safety Data Sheet: p-tert-Butylbenzoic Acid (PTBBA)

1. Identification

Product	p-tert-Butylbenzoic Acid (PTBBA); CAS 98-73-7; EC 202-696-3
Use	Professional industrial formulation ingredient and intermediate development.
Company	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
Address	Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China
Telephone / email	+86-21-54265599 / sales@zxchem.com.cn
Emergency contact	ZXCHEM office number above, office hours, China time (UTC+8). For urgent medical assistance contact local emergency services.
Scope	Reference safety information for p-tert-Butylbenzoic Acid (PTBBA). The reference composition, concentration and supply-grade differences are described in Section 3. This document does not certify the composition or transport status of a specific delivered batch or a different formulation.

2. Hazards Identification

Classification	Acute oral toxicity Category 4; reproductive toxicity Category 1A; specific target organ toxicity, repeated exposure Category 1.
Signal word / symbols	Danger; GHS07, GHS08
Hazard statements	H302: harmful if swallowed. H360: may damage fertility or the unborn child. H372: causes organ damage through prolonged or repeated exposure.
Prevention	Use adequate ventilation; avoid inhaling dust. Prevent skin and eye contact. Wear suitable chemical-resistant gloves and eye protection. Wash after handling; keep food and drink out of the work area.
Response	After exposure, stop work and seek medical advice. For severe exposure obtain urgent medical care. Rinse contaminated skin or eyes with water; move an inhalation casualty to fresh air.
Environment	Prevent uncontrolled release to drains, soil or surface water. Collect spills for appropriate disposal.



3. Composition / Information on Ingredients

Reference ingredient	p-tert-Butylbenzoic acid, CAS 98-73-7. Selected reference is 99%; local impurity limits are supply specifications rather than batch analysis.
Supply grade	Assay ≥99%
Applicability	The cited concentration or purity describes the reference material. It is not a certificate of analysis for the delivered batch; different solvents or dilutions require the matching supplier safety document.

4. First-Aid Measures

General	Protect the rescuer from exposure and show the product information to medical personnel. Obtain medical advice if symptoms occur or exposure is significant.
Inhalation	Move to fresh air and keep the person comfortable. Seek medical care for breathing difficulty or persistent symptoms. Avoid exposing rescuers to dust.
Skin	Remove contaminated clothing and rinse skin thoroughly with water. Seek medical advice for persistent irritation.
Eyes	Rinse gently with clean water for at least 15 minutes. Remove contact lenses when easy and continue rinsing. Seek medical advice if irritation persists.
Ingestion	Rinse the mouth. Do not induce vomiting. Give nothing by mouth to an unconscious person. Obtain medical advice.
Effects / treatment	Oral toxicity and chronic organ and reproductive hazards require strict exposure control. Treatment is symptomatic and directed by a clinician.

5. Fire-Fighting Measures

Extinguishing media	Use water spray, foam, dry chemical or carbon dioxide suited to the surrounding fire.
Hazards	Heating and combustion can produce carbon oxides.
Protection	Firefighters require suitable protective clothing and self-contained breathing equipment. Prevent contaminated firefighting water entering drains.

6. Accidental Release Measures

Personnel	Isolate the spill and provide ventilation. Use chemical-resistant gloves and eye protection; avoid contact and dust exposure.
Environment	Contain the release and protect drains and waterways. Report significant environmental contamination to the responsible authority.
Cleanup	Collect spilled solid without raising dust into closed labelled containers.

7. Handling and Storage

Handling	Use enclosed powder feeding or local extraction. Wear suitable protective gloves, eye protection and work clothing; avoid dust inhalation and direct contact. Provide controls for fumes during hot processing.
Storage	Store tightly sealed in a cool, dry, ventilated area with restricted access. Keep away from strong bases and oxidizers; control dust and protect against contamination.
Incompatibilities	Oxidizers and strong bases.

8. Exposure Controls / Personal Protection

Exposure limits	No product-specific occupational exposure limit is established here. Control airborne dust and apply current local workplace exposure requirements.
Engineering controls	Use local extraction where dust can be generated. Maintain accessible eyewash and emergency washing facilities.
Personal protection	Wear chemical-resistant gloves selected for the task, suitable protective clothing and splash goggles. Add face protection for splash-prone tasks.
Respiratory protection	Use a properly selected respirator under a respiratory-protection program where engineering controls do not adequately limit airborne exposure.
Hygiene	Wash after handling, remove contaminated clothing promptly and do not eat, drink or smoke in the work area.

9. Physical and Chemical Properties

Appearance	White crystalline powder
Formula / molecular weight	C ₁₁ H ₁₄ O ₂ / 178.23 g/mol
Appearance	White crystalline powder
Melting range, supply	162–166°C
Acid value, supply	312–316 mg KOH/g
Other properties	Additional physicochemical properties beyond the stated values are not established for the supply grade. No unstated values are inferred.

10. Stability and Reactivity

Stability	Handle and store under the recommended conditions. Prevent contamination and unnecessary heating.
Incompatibilities	Oxidizers and strong bases.
Decomposition	Heating and combustion can produce carbon oxides.

11. Toxicological Information

Exposure effects	Oral toxicity and chronic organ and reproductive hazards require strict exposure control.
Reference classification	Acute oral toxicity Category 4; reproductive toxicity Category 1A; specific target organ toxicity, repeated exposure Category 1.
Toxicological data	The reference assigns chronic organ and reproductive hazards. No numerical toxicity results are transferred to certify the supply grade.

12. Ecological Information

Environmental effects	Contain dust and cleanup residues. Do not discharge to drainage or surface water; absence of an aquatic transport label does not establish environmental safety.
Controls	Prevent uncontrolled release, collect spills and dispose of contaminated material through an authorized route.
Assessment	No product-specific PBT/vPvB assessment is claimed. Absence of data does not establish absence of environmental effects.

13. Disposal Considerations

Product	Collect surplus product and contaminated cleanup material for disposal by an authorized chemical-waste contractor in accordance with local requirements.
Packaging	Containers may retain product residues. Do not reuse contaminated packaging without an approved cleaning process; use an authorized disposal route.

14. Transport Information

Classification	Class 6.1 — Toxic solid
UN number	UN 2811
Shipping name	Toxic solid, organic, n.o.s. (p-tert-butylbenzoic acid)
Class / packing group	ADR/RID, IMDG and IATA: Class 6.1, UN 2811, packing group III in the full 99% reference.
Transport precautions	Protect packaging and closures from damage, secure loads and prevent releases. This reference is not a shipping declaration for a specific consignment.

15. Regulatory Information

Identity	p-tert-Butylbenzoic Acid (PTBBA); CAS 98-73-7; EC 202-696-3
HS reference	291639; reference heading rather than a destination customs ruling.
Compliance	Apply applicable workplace, environmental and transport rules. A raw-material listing does not establish finished-product authorization.
Assessment	No ZXCHEM-specific chemical safety assessment or destination registration is asserted.

16. Other Information

Hazard meanings	H302: harmful if swallowed. H360: may damage fertility or the unborn child. H372: causes organ damage through prolonged or repeated exposure.
Limitations	Prepared as reference safety information for the identified material. It is not a batch analytical certificate or safety assessment of a different solvent-containing formulation.
Revision	2026.2; prepared 2026-10-06. Customer-document branding and title corrected; technical safety data retained.
Document scope	Reference safety information for the material and grade described in Sections 1 and 3. Different concentrations, solvents or formulations require the applicable safety information. This is not a batch analytical certificate.

Revision: 2026.2 | Revision date: 2026-10-06