



## Material Safety Data Sheet

### p-tert-Butylbenzoic acid, 99%

#### SECTION 1. CHEMICAL IDENTIFICATION AND COMPANY IDENTIFICATION

**MSDS Name:** p-tert-Butylbenzoic acid, 99%

**Brand:** AOGE

**Synonyms:** 4-tert-butylbenzoic acid  
PTBBA

**Company Identification:** HEBEI AOGE CHEMICAL CO., LTD  
Guantao New Chemical Industrial Park, Handan City, Hebei Province, China.  
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#### SECTION 2. COMPOSITION, INFORMATION ON INGREDIENTS

**Chemical Name:** p-tert -Butylbenzoic acid

**CAS NO:** 98-73-7

**MF:** C<sub>11</sub>H<sub>14</sub>O<sub>2</sub>

**UN:** 2811

**EC NO:** 202-696-3

#### SECTION 3. HAZARDS IDENTIFICATION

##### EMERGENCY OVERVIEW

Appearance: white crystal

Harmful if inhaled or swallowed. May cause eye and skin irritation.

**Target Organs:** Kidneys, liver, respiratory system, nervous system, male reproductive system.

For additional information on toxicity, please refer to section 11

#### SECTION 4. FIRST AID MEASURES

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

**Ingestion:** Never give anything by mouth to an unconscious person. Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

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

**Notes to Physician:** Treat symptomatically and supportively.



## 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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion.

**Extinguishing Media:** Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

**Flash Point:** > 80 °C (> 176.00 °F)

**Auto ignition Temperature:** Not applicable.

**Explosion Limits, Lower:** Not available.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

## SECTION 7. HANDLING AND STORAGE

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Do not breathe dust, vapor, mist, or gas. Keep container tightly closed. Do not ingest or inhale. Use only in a chemical fume hood.

**Storage:** Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

## 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 only under a chemical fume hood.

### Personal Protective Equipment

**Eyes:** Avoid eye contact. Wear safety spectacles, goggles or, for larger quantities, a full-face mask.

**Skin:** Wear appropriate gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**General hygiene measures:** Remove and wash contaminated clothing promptly. Wash thoroughly after handling.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** white crystal

**PH:** Not available.



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**Evaporation Rate:** Not available.  
**Decomposition Temperature:** Not available.  
**Odor:** None reported.  
**Vapor Pressure:** Not available.  
**Vapor Density:** Not available.  
**Viscosity:** Not available.  
**Boiling Point:** Not available.  
**Melting Point:** 164°C-167°C  
**Solubility:** Insoluble.  
**Specific Gravity/Density:** Not available.  
**Molecular Formula:** C<sub>11</sub>H<sub>14</sub>O<sub>2</sub>  
**Molecular Weight:** 178.23

## SECTION 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal temperatures and pressures.  
**Conditions to Avoid:** Incompatible materials, dust generation, excess heat, strong oxidants.  
**Incompatibilities with Other Materials:** Strong oxidizing agents, strong bases.  
**Hazardous Decomposition Products:** Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.  
**Hazardous Polymerization:** Has not been reported.

## SECTION 11. TOXICOLOGICAL INFORMATION

**CAS No: 98-73-7: DG4708000**

**LD50/LC50:**

Draize test, rabbit, eye: 100 mg Mild;  
Inhalation, rat: LC50 = >1900 mg/m<sup>3</sup>/4H;  
Oral, mouse: LD50 = 568 mg/kg;  
Oral, rat: LD50 = 473 mg/kg;  
Skin, rabbit: LD50 = >900 mg/kg;  
Skin, rat: LD50 = 300 mg/kg;

**Carcinogenicity:**

CAS# 98-73-7: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** No information found

**Teratogenicity:** No information found

**Reproductive Effects:** Inhalation, rat: TCLo = 106 mg/m<sup>3</sup>/6H (male 7 day(s) pre-mating) Paternal Effects - testes, epididymis, sperm duct.; Inhalation, rat: TCLo = 12500 ug/m<sup>3</sup>/6H (male 7 day(s) pre-mating) Paternal Effects - spermatogenesis (incl.

genetic material, sperm morphology, motility, and count).

**Mutagenicity:** No information found

**Neurotoxicity:** No information found

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity:** Fish: Goldfish: LC50 = 33 mg/L; 96 Hr; Unspecified  
Fish: Goldfish: LC50 = 33 mg/L; 96 Hr; Unspecified

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Appropriate method of disposal of substance or preparation:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**SECTION 14. TRANSPORT INFORMATION****DOT**

**Proper shipping name:** TOXIC SOLIDS, ORGANIC, N.O.S.

**UN#:** UN2811

**Class:** 6.1

**Packing group:** III

**Hazard label:** toxic

**SECTION 15. REGULATORY INFORMATION****US FEDERAL****TSCA**

CAS# 98-73-7 is listed on the TSCA inventory.

**Health & Safety Reporting List**

CAS# 98-73-7: Effective 6/25/86, Sunset 12/19/95

**Chemical Test Rules**

None of the chemicals in this product are under a Chemical Test Rule.

**Section 12b**

None of the chemicals are listed under TSCA Section 12b.

**TSCA Significant New Use Rule**

None of the chemicals in this material have a SNUR under TSCA.

**CERCLA Hazardous Substances and corresponding RQs**

None of the chemicals in this material have an RQ.

**SARA Section 302 Extremely Hazardous Substances**

None of the chemicals in this product have a TPQ.

**Section 313** No chemicals are reportable under Section 313.

**Clean Air Act:**

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.



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**Clean Water Act:**

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

**OSHA:**

None of the chemicals in this product are considered highly hazardous by OSHA.

**STATE**

CAS# 98-73-7 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

**California Prop 65**

California No Significant Risk Level: None of the chemicals in this product are listed.

**European/International Regulations****European Labeling in Accordance with EC Directives****Hazard Symbols:**

XN

**Risk Phrases:**

R 22 Harmful if swallowed.

**Safety Phrases:**

S 22 Do not breathe dust.

S 24/25 Avoid contact with skin and eyes.

S 37 Wear suitable gloves.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 28A After contact with skin, wash immediately with plenty of water

**WGK (Water Danger/Protection)**

CAS# 98-73-7: 1

**Canada - DSL/NDSL**

CAS# 98-73-7 is listed on Canada's DSL List.

**Canada - WHMIS**

This product has a WHMIS classification of D2A, D1A.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

**Canadian Ingredient Disclosure List**

CAS# 98-73-7 is listed on the Canadian Ingredient Disclosure List.

**SECTION 16. OTHER INFORMATION**

**DISCLAIMER:** for R&D use only. Not for drug, household or other uses.

**WARRANTY:** The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. HEBEI AOGE CHEMICAL CO., LTD. shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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