

SAFETY DATA SHEET

Tertiary Butylhydroquinone (TBHQ) – Food Grade

1. Identification of the Substance and Company

Product Name: Tertiary Butylhydroquinone (TBHQ), Food Grade | Synonyms: 2-tert-Butylhydroquinone, E319, INS 319

CAS No.: 1948-33-0 | EC No.: 217-752-2 | Molecular Formula: C₁₀H₁₄O₂

Recommended Use: Food-grade antioxidant for edible oils, fats and fat-containing foods.

Packager / Supplier: ASES Chemical Works, Brahm Bagh, Jalori Gate, Jodhpur-342001, Rajasthan, India. Ph: +91 6367075682 | ecom@ases.in

2. Hazards Identification

GHS Classification: Acute Toxicity (Oral) Cat. 4; Skin Irritation Cat. 2; Eye Irritation Cat. 2; Aquatic Chronic Cat. 1.

Signal Word: Warning | Pictograms: GHS07 (Exclamation mark), GHS09 (Environment)

Hazard Statements: H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements: P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P280 Wear protective gloves and eye protection.

P301+P312 IF SWALLOWED: Call a doctor if you feel unwell. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes; remove contact lenses if present; continue rinsing. P391 Collect spillage. P501 Dispose of contents/container in accordance with local regulations.

Note: Classification applies to the pure substance. At permitted food use levels (max. 200 mg/kg of fat) it is approved as a food additive.

3. Composition / Information on Ingredients

tert-Butylhydroquinone (CAS 1948-33-0): 99.0% min.

4. First-Aid Measures

Inhalation: Move to fresh air. Seek medical advice if symptoms persist.

Skin contact: Remove contaminated clothing; wash skin with soap and water.

Eye contact: Rinse cautiously with plenty of water for at least 15 minutes. Seek medical advice if irritation persists.

Ingestion: Rinse mouth. Do not induce vomiting. Seek medical advice.

5. Fire-Fighting Measures

Extinguishing media: Water spray, foam, dry chemical powder, CO₂.

Specific hazards: Fine dust dispersed in air may form an explosive mixture. Combustion produces carbon oxides.

Firefighters should wear self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures

Wear gloves, goggles and dust mask. Avoid dust formation.

Sweep up without raising dust and place in a closed container for disposal. Prevent entry into drains and waterways.

7. Handling and Storage

Handling: Avoid dust formation and contact with skin and eyes. Use in a well-ventilated area.

Storage: Keep in a tightly closed container in a cool, dry place away from light, heat and oxidising agents. Avoid contact with iron and copper, which can cause discolouration.

8. Exposure Controls / Personal Protection

No specific occupational exposure limit established. Use local exhaust ventilation where dust is generated.

PPE: Safety goggles, nitrile gloves, dust mask (N95 / P2) where dust is present, protective clothing.

9. Physical and Chemical Properties

Appearance: White to light tan crystalline powder | Odour: Faint, characteristic

Molecular Weight: 166.22 g/mol | Melting Point: 126.5 – 128.5°C | Boiling Point: approx. 295°C

Solubility: Soluble in ethanol, ether, edible oils and fats; practically insoluble in water

10. Stability and Reactivity

Stable under recommended storage conditions.

Incompatible materials: Strong oxidising agents, strong bases, iron and copper salts.

Hazardous decomposition products: Carbon monoxide and carbon dioxide.

11. Toxicological Information

Acute oral toxicity: Harmful if swallowed in concentrated form (LD50 oral, rat: approx. 700 – 1000 mg/kg).

Irritation: Irritating to skin and eyes. JECFA ADI: 0 – 0.7 mg/kg body weight.

12. Ecological Information

Very toxic to aquatic life with long lasting effects. Avoid release to the environment.

13. Disposal Considerations

Dispose of through a licensed waste contractor in accordance with local and national regulations. Do not discharge to drains.

14. Transport Information

UN No.: UN3077 | Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s.
(tert-Butylhydroquinone)

Class: 9 | Packing Group: III | Marine Pollutant: Yes

Small quantities (5 kg or less net per package) may qualify for the environmentally hazardous substance exemption under ADR / IMDG / IATA special provisions.

15. Regulatory Information

Permitted food additive E319 / INS 319, subject to the maximum levels in applicable food laws (e.g. FSSAI, Codex, SFDA / GSO). Conforms to IS 11913:1986.

16. Other Information

Batch Reference: 10001081026 | Mfg. Date: May-2026 | Best Before: Apr-2028

Date of Issue: 11-Oct-2026

The information in this SDS is based on current knowledge and is given in good faith. It does not constitute a guarantee of specific properties. Users should ensure the product is suitable for their application.