

Safety Data Sheet (SDS)

Benzocaine (Free Base)

Revision Date: 2026-06-09

Version: 2.0

Format: OSHA HCS (29 CFR 1910.1200) / GHS

SECTION 1: Identification

- **Product Name:** Benzocaine (Free Base) / Ethyl 4-aminobenzoate
- **CAS Number:** 94-09-7
- **Identified Uses:** Analytical reference standard, laboratory chemical, chemical manufacturing intermediate.
- **Restrictions on Use:** Strictly for analytical R&D or manufacturing use. Not for human or animal consumption. Not a finished drug product. Not for therapeutic or diagnostic application.
- **Company Name:** Albochemicals LLC
- **Company Website:** <http://www.albochem.com>
- **Address:** 8 The Green #10911 Dover, DE 19901

SECTION 2: Hazard(s) Identification

- **2.1 Classification of the substance or mixture (GHS Classification):**
 - Skin Sensitization (Category 1), H317
 - Acute aquatic toxicity (Category 2), H401
 - Chronic aquatic toxicity (Category 2), H411
- **2.2 GHS Label Elements:**
- **Signal Word:** Warning
- **Hazard Statements:**
 - H317: May cause an allergic skin reaction.
 - H401: Toxic to aquatic life.
 - H411: Toxic to aquatic life with long lasting effects.
- **Precautionary Statements:**
 - P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
 - P272: Contaminated work clothing should not be allowed out of the workplace.
 - P273: Avoid release to the environment.

- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
- P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.
- P363: Wash contaminated clothing before reuse.
- P391: Collect spillage.
- P501: Dispose of contents/container to an approved waste disposal plant.

SECTION 3: Composition / Information on Ingredients

Chemical Name	Synonyms	CAS Number	Concentration
Benzocaine	Ethyl 4-aminobenzoate	94-09-7	≥ 99.0%

Formula: C9H11NO2

Molecular weight: 165.19 g/mol

SECTION 4: First-Aid Measures

- **General Advice:** Consult a physician. Show this safety data sheet to the doctor in attendance.
- **Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- **Skin Contact:** Wash off with soap and plenty of water. Consult a physician if irritation or rash develops.
- **Eye Contact:** Flush eyes with water as a precaution. Remove contact lenses if present and easy to do.
- **Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
- **Specific Hazards Arising from the Chemical:** Carbon oxides, Nitrogen oxides (NOx).
- **Special Protective Equipment:** Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental Release Measures

- **Personal Precautions:** Use personal protective equipment. Avoid dust formation. Avoid breathing dust, vapors, mist, or gas. Ensure adequate ventilation.
- **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.
- **Methods and Materials for Clean Up:** Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and Storage

- **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.
- **Conditions for Safe Storage:** Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place. Store at room temperature. Protect from light.

SECTION 8: Exposure Controls / Personal Protection

- **Control Parameters:** Contains no substances with occupational exposure limit values.
- **Engineering Controls:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.
- **Personal Protective Equipment:**
 - **Eye/Face Protection:** Safety glasses with side-shields conforming to EN166 or NIOSH (US).
 - **Skin Protection:** Handle with gloves. Gloves must be inspected prior to use.
 - **Body Protection:** Complete suit protecting against chemicals.
 - **Respiratory Protection:** For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.

SECTION 9: Physical and Chemical Properties

- **Appearance:** Form: Crystalline Powder. Color: White to off-white.
- **Odor:** Odorless
- **Melting Point:** 88-90°C
- **Flash Point:** No data available
- **Solubility:** Sparingly soluble in water; highly soluble in alcohol and ether.

SECTION 10: Stability and Reactivity

- **Reactivity:** No data available.
- **Chemical Stability:** Stable under recommended storage conditions.
- **Possibility of Hazardous Reactions:** No data available.
- **Conditions to Avoid:** Light and moisture.
- **Incompatible Materials:** Strong oxidizing agents, strong acids, strong bases.

SECTION 11: Toxicological Information

- **Acute Toxicity:** LD50 Oral - Rat - 3,042 mg/kg.
- **Skin Corrosion/Irritation:** No data available.
- **Serious Eye Damage/Eye Irritation:** No data available.
- **Respiratory or Skin Sensitization:** May cause an allergic skin reaction (Category 1).
- **Carcinogenicity:** Not identified as a probable, possible, or confirmed human carcinogen by IARC, NTP, or OSHA.

SECTION 12: Ecological Information

- **Toxicity:** Toxicity to fish (LC50) - *Oncorhynchus mykiss* (rainbow trout) - 7.2 mg/l - 96 h.
- **Persistence and Degradability:** No data available.
- **Bioaccumulative Potential:** No data available.
- **Other Adverse Effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal Considerations

- **Waste Treatment Methods:** Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
- **Contaminated Packaging:** Dispose of as unused product.

SECTION 14: Transport Information

- **DOT (US):** Not dangerous goods.
- **IMDG:** UN number: 3077 | Class: 9 | Packing group: III | EMS-No: F-A, S-F | Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Benzocaine) | Marine pollutant: yes

- **IATA:** UN number: 3077 | Class: 9 | Packing group: III | Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Benzocaine)

SECTION 15: Regulatory Information

- **SARA 302 Components:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- **SARA 313 Components:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
- **Massachusetts Right To Know Components:** No components are subject to the Massachusetts Right to Know Act.
- **Pennsylvania Right To Know Components:** Benzocaine (CAS-No. 94-09-7).
- **New Jersey Right To Know Components:** Benzocaine (CAS-No. 94-09-7).
- **California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: Other Information

- **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. The manufacturer/supplier shall not be held liable for any damage resulting from handling or from contact with the above product.