

Material Safety Data Sheet (MSDS)

4-Hydroxybenzaldehyde

Revision Date: 23-September-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** 4-Hydroxybenzaldehyde
- **Chemical Formula:** C₇H₆O₂
- **CAS No:** 123-08-0
- **Synonyms:** p-Hydroxybenzaldehyde; 4-Formylphenol
- **Recommended Use:** Laboratory chemical; intermediate in organic synthesis; pharmaceutical and fragrance ingredient.

Section 2: Hazards Identification

- **Classification (GHS):** Skin irritation (Category 2); Eye irritation (Category 2A).
- **Signal Word:** Warning
- **Hazard Statements:**

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- Causes skin irritation
- Causes serious eye irritation
- **Precautionary Statements:**
 - Wash thoroughly after handling
 - Wear protective gloves/eye protection
 - **IF ON SKIN or IN EYES:** Rinse cautiously with water; seek medical advice if irritation persists

Section 3: Composition / Information on Ingredients

- **Concentration:** 100%

Section 4: First Aid Measures

- **Inhalation:** Remove to fresh air. If symptoms develop, seek medical attention.
- **Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing. Seek medical advice if irritation persists.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Get medical attention if irritation persists.
- **Ingestion:** Rinse mouth. Do NOT induce vomiting. Seek medical advice if unwell.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Dry chemical, foam, carbon dioxide (CO₂); water spray.
- **Specific Hazards:** Emits toxic fumes of carbon oxides under fire conditions.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

- **Personal Precautions:** Use personal protective equipment. Avoid breathing vapors/dust. Ensure adequate ventilation.
- **Environmental Precautions:** Prevent entry into drains and waterways.
- **Cleanup Methods:** Sweep up and place in a suitable container for disposal. Avoid dust formation.

Section 7: Handling and Storage

- **Handling:** Avoid inhalation of dust and contact with skin/eyes. Use with adequate ventilation.
- **Storage:** Keep container tightly closed. Store in a cool, dry, well-ventilated place away from incompatible substances.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** Not established (refer to local occupational exposure guidelines).
- **Engineering Controls:** Provide adequate ventilation and local exhaust if needed.
- **Personal Protective Equipment:** Chemical-resistant gloves, safety goggles, protective clothing. Respiratory protection if dust levels are high.

Section 9: Physical and Chemical Properties

- **Appearance:** White to pale yellow crystalline powder
- **Odor:** Characteristic aromatic odor
- **Boiling Point:** 225 °C (decomposes)
- **Flash Point:** 174 °C (closed cup)
- **Solubility:** Slightly soluble in water; soluble in ethanol and organic solvents
- **Molecular Weight:** 122.12 g/mol

Section 10: Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Incompatible Materials:** Strong oxidizing agents, strong bases.
- **Hazardous Decomposition Products:** Carbon oxides under fire conditions.

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Causes skin and eye irritation; may cause respiratory irritation if dust is inhaled.
- **Chronic Effects:** Prolonged or repeated exposure may cause dermatitis or respiratory discomfort. No evidence of carcinogenicity.

Section 12: Ecological Information

- **Ecotoxicity:** May be harmful to aquatic organisms in high concentrations.
- **Persistence and Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** Low potential.

Section 13: Disposal Considerations

- Dispose of contents/container in accordance with local/regional/national regulations. Avoid release into the environment.

Section 14: Transport Information

- **UN Number:** Not regulated
- **Proper Shipping Name:** 4-Hydroxybenzaldehyde
- **Hazard Class:** Not classified as dangerous goods
- **Packing Group:** Not applicable

Section 15: Regulatory Information

- Complies with Indian chemical safety regulations and listed under international chemical inventories (TSCA, EINECS, etc.).
- Classified as hazardous substance as per GHS.

Section 16: Other Information

- **Disclaimer:** The above information is believed to be correct but does not claim to be exhaustive. Users are responsible for verifying suitability under actual conditions of use. **Triveni chemicals** disclaims any liability for damage resulting from handling or contact.