

# Chemical Safety Technical Data Sheet

Product Name:Para-hydroxybenzaldehyde

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Developed in accordance with GB/T 16483 and GB/T 17519

SDS Number: ZLJL-987

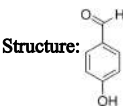
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## Part 1: Identification of Chemicals and Enterprises

Chinese name of the chemical:p-Hydroxybenzaldehyde; 4-hydroxybenzaldehyde

Chemical name in English:p-hydroxybenzaldehyde; 4-hydroxybenzaldehyde

Molecular formula:C<sub>7</sub>H<sub>6</sub>O<sub>2</sub> Relative molecular mass:122.12



Recommended and restricted uses of the chemical:An important intermediate for pharmaceuticals, fragrances, and pesticides; a raw material for polymer plastics and pharmaceuticals.

## Part II Overview of Hazards

Emergency overview:May be harmful when swallowed. Causes skin irritation. Causes severe eye irritation. May cause respiratory tract irritation.

GHS Hazard Category:

Acute toxicity – Oral:

Category 5 Skin corrosion/irritation:Category 2

Severe eye injury/eye irritation:Category 2A

Specific target organ toxicity – single exposure:Category 3

Tag Elements:

figurative graph :



Warning phrase:Warning

Hazard Statement:May be harmful if swallowed. Causes skin irritation. Causes severe eye irritation. May cause respiratory tract irritation.

Protection Explanation:

【 preventive measure 】

- Thoroughly clean after use.
- Avoid inhalation of dust. Operate only outdoors or in a well-ventilated area.
- Wear protective gloves, protective clothing, protective goggles, and a face shield.

[Accident Response]

- For inhalation: Transfer the patient to an area with fresh air, have them rest, and maintain a position that facilitates breathing. Seek medical attention if discomfort occurs.
- Skin contact: Rinse thoroughly with plenty of soap and water. Remove all contaminated clothing and wash them before reuse. In case of skin irritation: seek medical attention.
- Eye contact: Rinse carefully with water for several minutes. If contact lenses are worn and can be easily removed, remove them and continue rinsing. If eye irritation persists, seek medical attention.
- Administration: Seek medical attention if discomfort occurs.

【 safe storage 】

- Store in a well-ventilated area. Keep the container tightly sealed. The storage location must be locked.

[Disposal of Waste]

·This product, its contents, and the container shall be disposed of in accordance with national and local regulations.

**Physical and chemical hazards:**No data available.

**Health hazards:**May be harmful when swallowed. Causes skin irritation. Causes severe eye irritation. May cause respiratory tract irritation.

**Environmental hazards:**No data available.

Part III: Composition/Composition Information

|                          |               |          |
|--------------------------|---------------|----------|
| √matter                  |               | Mixture  |
| Component                | Concentration | CAS No.  |
| Para-hydroxybenzaldehyde | ≥98 0%        | 123-08-0 |

Part IV Emergency Management Measures

**Inhalation:**Immediately remove the individual from the area to fresh air. Keep the airway clear. If breathing is difficult, administer oxygen. In case of respiratory or cardiac arrest, perform cardiopulmonary resuscitation (CPR) immediately. Seek medical attention.

**Skin contact:**Immediately remove contaminated clothing and rinse thoroughly with plenty of running water for at least 15 minutes. Seek medical attention.

**Eye contact:**Immediately open the eyelids and rinse thoroughly with running water or saline solution for 5–10 minutes. Seek medical attention.

**Ingestion:**Rinse the mouth with water. Seek medical attention.

**Most important symptoms and health effects:**The most significant known symptoms and their effects are described on the label (see Part II) and/or Part XI.

**Advice for rescuers:**Wear a self-contained breathing apparatus when entering the accident site.

**Special note for physicians:**Provide symptomatic treatment.

Part V Fire Safety Measures

**Fire extinguishing agents:**Use water mist, dry powder, foam, or carbon dioxide to extinguish the fire.

**Special risk:**No data available.

**Fire suppression precautions and protective measures:**Firefighters must wear respirators and full-body fire-resistant and chemical-proof suits, approaching the fire from upwind. Move containers to an open area whenever possible. Spray water to keep containers cool until the fire is fully extinguished.

Part VI: Emergency Response to Leaks

**Protective measures, protective equipment, and emergency response procedures for personnel:**Isolate the contaminated leakage area and restrict access. Emergency responders should wear dust masks, chemical-resistant protective clothing, and rubber gloves. Do not handle damaged containers or leaked substances until properly equipped. Immediately cut off the source of leakage whenever possible. Cover the spill with plastic sheeting to minimize dispersion. Prevent water from entering the container.**Environmental protection measures:**Avoid allowing the product to enter drainage systems.

**Methods for containing and removing leaked chemicals, as well as the disposal materials used:**Collect the spill using a clean shovel and place it in a clean, dry container with a loose lid; then move the container away from the spill area.

Part VII: Handling, Storage and Disposal

**Operating Precautions:**Operators must undergo specialized training and strictly adhere to operating procedures. It is recommended that operators wear self-suction filtering dust masks, chemical safety goggles, chemical protective clothing, and rubber gloves. Keep away from sources of ignition and heat; smoking is strictly prohibited in the workplace. Prevent dust generation. Avoid contact with eyes and skin; thoroughly wash hands after operation. Avoid contact with oxidizers, reducing agents, and alkalis. Handle with care during transportation to prevent damage to packaging and containers. Equip with appropriate types and quantities of fire extinguishers and leakage emergency response equipment. Food consumption is prohibited in the workplace; wash hands after use. Remove contaminated clothing and protective equipment before entering food service areas.

**Storage Precautions:**Store in a dry, well-ventilated warehouse. Keep sealed and protected from light. Keep away from sources of ignition and heat. Store separately from oxidizers, reducing agents, alkalis, and food-grade chemicals; avoid mixing. Equip with appropriate types and quantities of fire-fighting equipment. The storage area should have suitable materials to contain spills.

Part VIII Contact Control/Personal Protection

**Occupational exposure limits:**China: No standards established.

United States (ACGIH): No standards have been established.

**Biological contact limit:**No standard established.

**Monitoring methods:**Methods for determining toxic substances in the air: No standards have been established. Methods for biological monitoring tests: No standards have been established.

**Engineering controls:**Provide safe shower and eye-wash facilities.

**Personal Protective Equipment:**

**Respiratory protection:**Wear a self-suction filtering dust mask when air concentration exceeds safe limits. During emergency rescue or evacuation, use an air respirator.

**Hand protection:**Wear rubber gloves.

**Eye protection:**Wear chemical safety goggles.

**Skin and body protection:**Wear chemical protective clothing.

#### Part Nine Physical and Chemical Properties

**Appearance and characteristics:**White to light yellow to pale brown crystals, sensitive to air and light

**Odor:**Has a fragrant aroma

**pH value:**No data available

**Critical temperature (°C):**No data

**Melting point/Fusing point (°C):**112–119

**Critical pressure (MPa):**No data

**Boiling point, initial boiling point, and boiling range (°C):**191

**Self-ignition temperature (°C):**No data

**Flash point (°C):**No data available

**Decomposition temperature (°C):**No data

**Explosion Limit (%):**No data

**Combustion heat (kJ/mol):**No data

**Lower explosive limit (%):**No data

**Evaporation Rate:**No data

**Saturation vapor pressure (kPa):**No data

**Flammability (solid, gas):**No data

**Relative density (water = 1):**1.129

**Viscosity (mPa·s):**No data

**Relative vapor density (air = 1):**No data

**Olfactory threshold (mg/m<sup>3</sup>):**No data

**Octanol/water partition coefficient (lg P):**No data

**Solubility:**Easily soluble in ethanol and ether; highly soluble in hot water; slightly soluble in benzene and cold water.

#### Part 10: Stability and Reactivity

**Stability:**Stable.

**Adverse reactions:**No data available.

**Conditions for avoiding contact:**No information available.

**Contraindications:**strong oxidizing agents, strong reducing agents, strong alkalis.

**Hazardous decomposition products:**No data available.

#### Part XI Toxicological Information

**Acute toxicity:**No data available.

**Skin irritation or corrosion:**

non-available。

**Eye irritation or corrosion:**

non-available。

**Respiratory or skin allergy:**

non-available。

**Mutability of germ cells:**

non-available。

**Carcinogenicity:**No data available.

**Reproductive toxicity:**No data available.

**Specific target organ system toxicity – single exposure:**No data available.

**Specific target organ system toxicity – repeated exposure:**No data available.

**Inhalation hazards:**No data available.

#### Part XII: Ecological Information

**Ecotoxicity:**No data available.

**Durability and Degradability:**

Biodegradability: No data available.

Non-biodegradability: No data available.

**Potential bioaccumulation:**No data available.

**Mobility in soil:**No data available.

#### Part 13: Waste Disposal

**Waste chemicals:**Dispose of remaining and non-recyclable products by entrusting them to licensed companies. Do not dispose of this substance by discharge into sewers.

**Contaminated packaging:**Disposal shall comply with national and local regulations.

**Disposal precautions:**Refer to relevant national and local regulations before disposal.

**Part 14: Transportation Information**

**United Nations dangerous goods number (UN number):**No information available

**United Nations Transport Name:**No information available

**UN hazard class:**No information

**Packaging Category:**No information

**Packaging Logo:**No information

**Marine pollutants:**No

**Transportation Precautions:**Before transportation, verify that the packaging container is intact and properly sealed. During transit, ensure the container remains leak-proof, stable, and undamaged. Strictly prohibit mixing with oxidizers, reducing agents, alkalis, or food-grade chemicals. Protect the container from direct sunlight, rain, and high temperatures. During intermediate stops, keep it away from sources of ignition, heat, or high-temperature areas. Transport vehicles must be equipped with appropriate firefighting equipment and leakage response devices in sufficient quantity. For road transport, follow designated routes as required.

**Part 15: Regulatory Information**

The following laws, regulations, rules, and standards contain corresponding provisions for the management of this chemical substance.

**Law of the People's Republic of China on the Prevention and Treatment of Occupational Diseases:**Classification and catalog of occupational diseases: Not listed.

**The Hazardous Chemicals Safety Law of the People's Republic of China:**List of hazardous chemicals: Not included; List of explosive-prone hazardous chemicals: Not included; List of key hazardous chemicals under supervision: Not included; GB18218-2018 "Identification of Major Hazard Sources for Hazardous Chemicals" (Table 1): Not included.

**Regulations on Labor Protection in Workplaces Where Toxic Substances Are Used:**List of highly toxic substances: Not included.

**Regulations on the Management of Chemicals Susceptible to Drug Manufacturing:**Classification and list of types of chemicals susceptible to drug manufacturing: Not included.

**International Conventions:**Stockholm Convention: Not included; Rotterdam Convention: Not included; Montreal Protocol: Not included.

**Part 16: Other Information**

**Writing and Revision Information:**

**Changes in this version:**Compared to the previous version, molecular formulas, relative molecular masses, and structural formulas have been added.

**Revision notes:**Updated every 5 years or when new relevant national laws and regulations are enacted.

**References:**Safety Culture Network

**Disclaimer:**The information in this SDS applies solely to the specified product. Unless otherwise stated, it does not apply to mixtures of this product with other substances. This SDS provides safety information only for properly trained users of the product. Users must independently assess the suitability of this SDS under specific usage conditions. The authors of this SDS shall not be liable for any injuries resulting from its use in exceptional circumstances.