<table>
<thead>
<tr>
<th>p-HYDROXY BENZOIC ACID</th>
<th>MATERIAL SAFETY DATA SHEET</th>
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<tbody>
<tr>
<td>CAS NO 99-96-7</td>
<td>SDS/MSDS</td>
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 **Product identifiers**
   - **Product name**: p-Hydroxy Benzoic Acid
   - **CAS-No.**: 99-96-7

1.2 **Relevant identified uses of the substance or mixture and uses advised against**
   - **Identified uses**: Laboratory chemicals, Industrial & for professional use only.

1.3 **Details of the supplier of the safety data sheet**
   - **Company**: Central Drug House (P) Ltd
     7/28 Vardaan House
     New Delhi -110002
     INDIA
   - **Telephone**: +91 11 49404040
   - **Email**: care@cdhfinechemical.com

1.4 **Emergency telephone number**
   - **Emergency Phone #**: +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

SECTION 2: Hazards identification

2.1 **Classification of the substance or mixture**
   - **Classification according to Regulation (EC) No 1272/2008**
     - Serious eye damage (Category 1), H318
     - Serious eye damage (Category 1), H318
     - Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
     - Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
   - For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 **Label elements**
   - **Labelling according Regulation (EC) No 1272/2008**
     - **Pictogram**
     - **Signal word**: Danger
     - **Hazard statement(s)**
       - H318: Causes serious eye damage.
       - H335: May cause respiratory irritation.
Precautionary statement(s)
P280 Wear eye protection/ face protection.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Supplemental Hazard Statements none

Signal word Danger

Hazard statement(s)
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

Precautionary statement(s)
P280 Wear eye protection/ face protection.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Supplemental Hazard Statements none

2.3 Other hazards
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances
Formula : C₇H₆O₃
Molecular weight : 138.12 g/mol
CAS-No. : 99-96-7
EC-No. : 202-804-9

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component Classification Concentration
4-Hydroxybenzoic acid
CAS-No. 99-96-7 Eye Dam. 1; STOT SE 3; <= 100 %
EC-No. 202-804-9 H318, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 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. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Store at Room Temperature.
Storage class (TRGS 510): Combustible Solids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls
Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment

**Eye/face protection**
Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection**
Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**
Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- **a)** Appearance
  - Form: solid
  - Colour: beige
- **b)** Odour
  - No data available
- **c)** Odour Threshold
  - No data available
- **d)** pH
  - 3.3 at 1 g/l
- **e)** Melting point/freezing point
  - Melting point/range: 215 - 217 °C
- **f)** Initial boiling point and boiling range
  - No data available
- **g)** Flash point
  - No data available
- **h)** Evaporation rate
  - No data available
- **i)** Flammability (solid, gas)
  - No data available
- **j)** Upper/lower flammability or explosive limits
  - No data available
- **k)** Vapour pressure
  - No data available
- **l)** Vapour density
  - No data available
- **m)** Relative density
  - 1.4041 g/cm3
- **n)** Water solubility
  - ca.5 g/l
- **o)** Partition coefficient: n-octanol/water
  - log Pow: 1.58
- **p)** Auto-ignition temperature
  - No data available
- **q)** Decomposition temperature
  - No data available
- **r)** Viscosity
  - No data available
s) Explosive properties  No data available
  t) Oxidizing properties  No data available

9.2 Other safety information
  Bulk density  0.60 g/l

SECTION 10: Stability and reactivity

10.1 Reactivity
  No data available

10.2 Chemical stability
  Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
  No data available

10.4 Conditions to avoid
  No data available

10.5 Incompatible materials
  Strong oxidizing agents

10.6 Hazardous decomposition products
  Hazardous decomposition products formed under fire conditions. - Carbon oxides
  Other decomposition products - No data available
  In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
  LD50 Oral - Rat - female - >= 2,000 mg/kg(4-Hydroxybenzoic acid)
  (OECD Test Guideline 423)

Skin corrosion/irritation
  No data available(4-Hydroxybenzoic acid)

Serious eye damage/eye irritation
  Eyes - Rabbit(4-Hydroxybenzoic acid)
  Result: Risk of serious damage to eyes. - 1 h
  (OECD Test Guideline 405)
  Remarks: May cause irreversible eye damage.

Respiratory or skin sensitisation
  in vivo assay - Mouse(4-Hydroxybenzoic acid)
  Result: Not a skin sensitizer.
  (OECD Test Guideline 429)

Germ cell mutagenicity
  Ames test(4-Hydroxybenzoic acid)
  Result: negative

Carcinogenicity
  IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

Specific target organ toxicity - single exposure
  Inhalation (dust/mist/fume) - May cause respiratory irritation.(4-Hydroxybenzoic acid)

Specific target organ toxicity - repeated exposure
  No data available
Aspiration hazard
No data available (4-Hydroxybenzoic acid)

Additional Information
Repeated dose toxicity - Rat - male and female - Oral - No observed adverse effect level - > 1,000 mg/kg
No adverse effect has been observed in chronic toxicity tests. (4-Hydroxybenzoic acid)

Repeated dose toxicity - Rat - male and female - Inhalation
No adverse effect has been observed in chronic toxicity tests. (4-Hydroxybenzoic acid)
RTECS: DH1925000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. (4-Hydroxybenzoic acid)

SECTION 12: Ecological information

12.1 Toxicity
Toxicity to fish
LC50 - Oryzias latipes - > 100 mg/l - 96 h (4-Hydroxybenzoic acid)
(OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates
EC50 - Daphnia magna (Water flea) - > 1,000 mg/l - 48 h (4-Hydroxybenzoic acid)
(OECD Test Guideline 202)

12.2 Persistence and degradability
Biodegradability
Result: 76.5 % - Readily biodegradable.

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available (4-Hydroxybenzoic acid)

12.5 Results of PBT and vPvB assessment
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

Contaminated packaging
Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number
ADR/RID: -
IMDG: -
IATA: -

14.2 UN proper shipping name
ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods
14.3 Transport hazard class(es)  
ADR/RID: -  
IMDG: -  
IATA: -

14.4 Packaging group  
ADR/RID: -  
IMDG: -  
IATA: -

14.5 Environmental hazards  
ADR/RID: no  
IMDG Marine pollutant: no  
IATA: no

14.6 Special precautions for user  
No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture  
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment  
For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.

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. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhhfinechemical.com for additional terms and conditions of sale.