

Material Safety Data Sheet para-Hydroxybenzoic Acid

Section 1 - Product Identification

Synonym : PHBA, 4-Hydroxybenzoic acid, p-Hydroxybenzoic acid, 4-Carboxyphenol.
Chemical Formula : $C_7H_6O_3$
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Recommended use : Used in the chemical industry, used as a component in preservatives, disinfectants, dyes. Used in the organic compound industry.

Section 2 – Hazards Identification

2.1. Classification

Acute Toxicity: Category 5
Skin Corrosion/Irritation: Category 3
Serious Eye Damage/Eye Irritation: Category 2A

2.2. Label elements

Symbols/Pictograms



Signal Word

Warning

Hazard Statements

Harmful if swallowed
May cause moderate skin irritation
May cause eye irritation

Precautionary Statements

No eating or drinking in the working area.
Avoid contact with eyes and skin.
In case of contact, immediately flush with plenty of water, and get medical attention.
If swallowed, seek medical advice immediately.

2.3. Other hazards

Not applicable

Section 3 – Composition/Information on Ingredients

3.1 Composition comments

Chemical Name	EC No/CAS No	Purity, %
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para-Hydroxybenzoic acid	99-96-7	99
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Section 4 – First-Aid Measures

4.1. Description of first aid measures

Eyes

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid if irritation develops or persists.

Skin

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

Ingestion

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid if necessary.

Inhalation

Move to fresh air. In case of nausea, seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed

N.A.

4.3. Indication of any immediate medical attention and special treatment needed

N.A.

Section 5 – Fire Fighting Measures

5.1. Suitable Extinguishing media

Water, CO₂, foam, powder

5.2. Specific hazards arising from the chemical

None known.

5.3. Special protective actions for fire-fighters

Do not stay in a dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

Section 6 – Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid generation and inhalation of dust.

6.2. Environmental precautions

Not available.

6.3. Methods and material for containment and cleaning up

Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.

Section 7 – Handling and Storage

7.1. Precautions for safe Handling

Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 – Exposure Controls/Personal Protection

8.1. Appropriate engineering controls

Use local exhaust ventilation to control airborne levels below recommended exposure limits.

8.2. Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Safety goggles.

Skin protection

Rubber gloves.

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

Dust-proof mask.

Hygiene Measures

Change contaminated clothing immediately after working. Wear a protective mask, goggles, gloves, and protective clothing and boots. Smoking, eating and drinking are prohibited in the work area. Wash hands thoroughly after handling with this substance.

Section 9 – Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State: Crystalline powder

Appearance: White or yellowish

Odor: Odorless

pH: 3.3(20°C, at 1 g/l H₂O)

Vapor Pressure: Not available

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: Not available

Boiling Point: 760.00mm Hg

Melting Point: 214~217 °C

Decomposition Temperature: Not available

Solubility: 8 g/l H₂O (20°C)

Specific Gravity/Density: Not available

Section 10 – Stability and Reactivity

10.1. Reactivity

Non-reactive under normal temperatures and pressures.

10.2. Chemical stability

Stable under normal temperatures and pressures.

10.3. Possibility of hazardous reactions

Not available.

10.4. Conditions to avoid:

Excess heat, incompatible materials.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide.

Section 11 – Toxicological Information

11.1 Health effects associated with ingredients

Acute toxicity

LD50: 2200mg/kg (Rat, Oral)

Skin corrosion/irritation

May cause skin irritation.

Serious eye damage/eye irritation

May cause eye irritation and possible eye injury.

Respiratory or skin sensitization

May cause respiratory tract irritation.

Germ cell mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Specific target organ toxicity - single exposure

Not available.

Specific target organ toxicity - repeated exposure

Not available.

Aspiration hazard

Not available.

Section 12 – Ecological Information

12.1. Ecotoxicity

Not classified as toxic.

12.2. Bioaccumulative potential

Not available.

12.3. Mobility in soil

Not available.

12.4. Persistence and Degradability

Not available.

12.5. Other adverse effects

Not available.

Section 13 – Disposal Considerations

13.1. Disposal methods

Waste from residues/unused products

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14 – Transport Information

14.1. DOT

Not regulated

14.2. IMDG

Not regulated

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available

14.3. IATA

Not regulated

Section 15 – Regulatory Information

15.1. Safety, health and environmental regulations

This material safety data sheet complies with the requirements of the following Taiwanese Regulations: Enforcement Rules of the Occupational Safety and Health Act, Regulation of Labelling and Hazard Communication of Dangerous and Harmful Materials, Road Traffic Safety Regulations, Industrial Waste Storage and Disposal Regulations and Facility Standards.

Section 16 : Additional Information

16.1. List of abbreviation and acronyms used in this MSDS

SDS : Safety Data Sheets

Index N° : atomic number of the element most characteristic of the properties of the substance

CAS No : Chemical Abstracts Service number

EC No : EINECS Number : European Inventory of Existing Commercial Substances

Repr. Cat. 2 : Substance presumed human reproductive toxicant

Acute Oral Cat. 5 : Substance which is of relatively low acute oral toxicity.

GHS : Globally Harmonised System of Classification and Labelling

LD₅₀ : Median Lethal Dose

LC₅₀ : Lethal Concentration, 50%

N.A. : Not Applicable

OSHA : Occupational Safety & Health Administration

Cal OSHA : The State of California Division of Occupational Safety and Health (DOSH)

PEL : Permissible Exposure Limits

ACGIH : American Conference of Governmental Industrial Hygienists

TLV : Threshold Limit Value

Japanese MITI : Japanese Ministry of International Trade and Industry

EC₅₀ : Half maximal effective concentration

UN : United Nations

U.S. EPA TSCA Inventory: Inventory of the chemical substances manufactured or processed in the United States according to Toxic Substances Control Act compiled and published under the authority of the Environmental Protection Agency

Canadian DSL: Canadian Domestic Substances List

16.2. Disclaimer of Liability

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