



Material Safety Data Sheet (MSDS)

Product Name: Paracetamol BP Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd

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1. Identification of the Substance/Preparation and Company

Product Name: Paracetamol BP Grade

Synonyms: Acetaminophen, p-Hydroxyacetanilide

Chemical Formula: C₈H₉NO₂

Molecular Weight: 151.16 g/mol

Intended Use: Pharmaceutical intermediate and active pharmaceutical ingredient (API) used as an analgesic and antipyretic.

2. Hazards Identification

Classification:

- Not classified as hazardous under normal conditions of use.
- May cause mild irritation to eyes, skin, or respiratory tract upon prolonged exposure.

Potential Health Effects:

- **Inhalation:** Dust may cause respiratory irritation.
- **Skin Contact:** May cause mild irritation.
- **Eye Contact:** Dust may cause mechanical irritation.
- **Ingestion:** Large doses may cause liver and kidney damage.

Signal Word: Caution

Hazard Statement: May cause liver damage if ingested in large amounts.

Precautionary Statements: Avoid inhalation, ingestion, or prolonged skin contact.

3. Composition / Information on Ingredients

Chemical Name: Paracetamol

CAS No.: 103-90-2

EINECS No.: 203-150-7

Purity: ≥ 99% (BP Grade)

4. First Aid Measures

- **Inhalation:** Move person to fresh air. Seek medical attention if irritation persists.
 - **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
 - **Eye Contact:** Flush eyes with plenty of water for at least 15 minutes.
 - **Ingestion:** Do not induce vomiting. Seek immediate medical attention.
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5. Fire Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, or CO₂.
 - **Hazardous Combustion Products:** Carbon oxides, nitrogen oxides.
 - **Special Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.
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6. Accidental Release Measures

- Avoid dust formation.
- Sweep or vacuum up and place in labeled containers for disposal.

- Avoid breathing dust and ensure adequate ventilation.
 - Dispose of in accordance with local regulations.
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7. Handling and Storage

Handling:

- Avoid contact with eyes, skin, and clothing.
- Avoid generating dust.
- Use in well-ventilated areas.

Storage:

- Store in a cool, dry, and well-ventilated area.
 - Keep container tightly closed.
 - Protect from heat and direct sunlight.
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8. Exposure Controls / Personal Protection

Engineering Controls: Provide local exhaust ventilation where dust is generated.

Respiratory Protection: Use dust mask if ventilation is inadequate.

Hand Protection: Wear suitable gloves.

Eye Protection: Safety goggles recommended.

Skin Protection: Use protective clothing.

9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
- **Odor:** Odorless
- **pH:** Neutral
- **Melting Point:** 168–172°C
- **Solubility:** Slightly soluble in water; freely soluble in alcohol
- **Boiling Point:** Not applicable (decomposes)

- **Molecular Formula:** $C_8H_9NO_2$
 - **Density:** $\sim 1.26 \text{ g/cm}^3$
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10. Stability and Reactivity

Stability: Stable under recommended storage conditions.

Incompatible Materials: Strong oxidizing agents, alkalis.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, nitrogen oxides.

Conditions to Avoid: High temperatures, exposure to moisture.

11. Toxicological Information

- **Acute Toxicity (Oral, Rat):** $LD_{50} = 338 \text{ mg/kg}$
 - **Acute Toxicity (Mouse):** $LD_{50} = 367 \text{ mg/kg}$
 - **Skin Irritation:** Mild, non-corrosive
 - **Eye Irritation:** Mild mechanical irritation possible
 - **Chronic Toxicity:** Prolonged high-dose exposure may cause liver and kidney damage.
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12. Ecological Information

- **Ecotoxicity:** Low toxicity to aquatic organisms.
 - **Persistence and Degradability:** Biodegradable.
 - **Bioaccumulation:** Not expected to bioaccumulate.
 - **Mobility in Soil:** Low mobility due to low solubility in water.
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13. Disposal Considerations

- Dispose of in accordance with local, regional, and national regulations.
 - Do not discharge into drains or environment.
 - Waste material can be incinerated under controlled conditions.
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14. Transport Information

UN Number: Not regulated

UN Proper Shipping Name: Not applicable

Transport Hazard Class: Non-hazardous

Packing Group: Not applicable

Environmental Hazards: None known

Special Precautions: Avoid dust generation during transport.

Transport Notes: Product is not classified as dangerous for transport by road, air, or sea (ADR/RID/IMDG/IATA).

15. Regulatory Information

- **Regulations:** Complies with BP standards and local chemical safety regulations.
 - **Labeling Requirements:** None for normal handling.
 - **Inventory Status:** Listed in EINECS, TSCA, and REACH compliant.
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16. Other Information

Disclaimer:

The information contained herein is believed to be accurate and represents the best data currently available. The user assumes all risk in handling this product.

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