

# Material Safety Data Sheet (MSDS)

**Product Name:** Paracetamol IP Grade (Meghmani)

**MSDS Generate Date:** 20-05-2017

**Revision Date:** 30-12-2024

## Supplier:

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## 1. Identification of the Substance/Preparation and Company

- **Product Name:** Paracetamol (Acetaminophen)
- **Synonyms:** Acetaminophen, N-(4-hydroxyphenyl)acetamide
- **Molecular Formula:** C<sub>8</sub>H<sub>9</sub>NO<sub>2</sub>
- **Molecular Weight:** 151.16 g/mol
- **Use:** Pharmaceutical active ingredient, analgesic and antipyretic

## 2. Hazards Identification

- Not classified as hazardous under normal handling.
- May cause eye irritation, respiratory discomfort, or allergic reactions in sensitive individuals.
- Prolonged ingestion in large doses may cause liver and kidney damage.

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### 3. Composition / Information on Ingredients

- **Chemical Name:** Paracetamol
  - **CAS No.:** 103-90-2
  - **EC No.:** 203-157-5
  - **Purity:** ≥ 99% (IP Grade)
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### 4. First Aid Measures

- **Inhalation:** Move person to fresh air. Seek medical advice if symptoms persist.
  - **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
  - **Eye Contact:** Rinse immediately with plenty of water for at least 15 minutes. Get medical attention if irritation persists.
  - **Ingestion:** Rinse mouth with water. Seek immediate medical attention. High doses can cause liver damage.
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### 5. Fire Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, carbon dioxide.
  - **Hazards from Combustion Products:** Emits toxic fumes (carbon monoxide, carbon dioxide, nitrogen oxides).
  - **Protective Equipment:** Wear self-contained breathing apparatus and protective clothing.
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### 6. Accidental Release Measures

- Avoid dust formation. Use personal protective equipment.
- Sweep up and place in a suitable container for disposal.
- Prevent release into sewers or waterways.

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## 7. Handling and Storage

- **Handling:** Avoid contact with eyes, skin, and clothing. Minimize dust generation.
- **Storage:** Store in a cool, dry, and well-ventilated place. Keep container tightly closed. Protect from light and moisture.

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## 8. Exposure Controls / Personal Protection

- **Occupational Exposure Limit:** Not established specifically; handle with pharmaceutical precautions.
- **Respiratory Protection:** Use dust mask/respirator if dust is generated.
- **Eye Protection:** Safety goggles recommended.
- **Skin Protection:** Gloves and protective clothing.

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## 9. Physical and Chemical Properties

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

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## 10. Stability and Reactivity

- **Stability:** Stable under recommended storage conditions.
- **Conditions to Avoid:** Excessive heat, moisture, light.

- **Incompatible Materials:** Strong oxidizing agents, strong acids.
  - **Hazardous Decomposition Products:** Carbon oxides, nitrogen oxides.
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## 11. Toxicological Information

- **Acute Toxicity (oral, rat):** LD50 ~ 338 mg/kg
  - **Effects of Overexposure:** Headache, nausea, vomiting, dizziness.
  - **Chronic Exposure:** Liver and kidney damage due to overdose.
  - **Sensitization:** Possible allergic skin reactions.
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## 12. Ecological Information

- Not expected to bioaccumulate.
  - May be toxic to aquatic organisms at high concentrations.
  - Avoid release into environment.
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## 13. Disposal Considerations

- Dispose in accordance with local, regional, and national regulations.
  - Do not discharge into drains or natural environment.
  - Recommended: Incineration in controlled facility.
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## 14. Transport Information (Detailed)

**UN Number:** Not regulated as a hazardous material under international transport regulations.

- **ADR/RID (Road/Rail Transport - Europe):**
  - Not classified as dangerous goods.

- No special packing or labeling requirements.
- **IMDG (Sea Transport - International Maritime Dangerous Goods):**
  - Not classified as hazardous for sea transport.
  - Transport in well-sealed containers to avoid moisture.
  - No Marine Pollutant classification.
- **IATA/ICAO (Air Transport):**
  - Not classified as dangerous goods.
  - Can be transported safely under standard packaging.
  - No restrictions on passenger or cargo aircraft.
- **DOT (U.S. Department of Transport):**
  - Not regulated as hazardous.
  - Standard labeling: Non-hazardous pharmaceutical ingredient.
- **Precautions for Transport:**
  - Ensure containers are tightly sealed to prevent dust emission.
  - Protect against physical damage, moisture, and direct sunlight.
  - Maintain documentation of product identity during transport.

**Conclusion:** Paracetamol IP Grade is considered **non-hazardous for transport** across road, rail, sea, and air routes.

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## 15. Regulatory Information

- Listed in pharmacopeias (IP, BP, USP).
  - Not classified as hazardous under OSHA, EU CLP, or GHS.
  - WHMIS Classification: Non-controlled.
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## 16. Other Information

- **Disclaimer:** The information provided is believed to be accurate and is offered in good faith. However, no warranty or guarantee is made. Users are advised to make their own assessment of workplace risks.
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