

Material Safety Data Sheet (MSDS)

Product Name: Microcrystalline Cellulose -101 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

- **Chemical Name:** Microcrystalline Cellulose
- **Synonyms:** MCC, Cellulose Powder
- **Chemical Formula:** $(C_6H_{10}O_5)_n$
- **CAS Number:** 9004-34-6
- **BP Grade:** British Pharmacopoeia compliant

2. Composition / Information on Ingredients

- **Substance:** Microcrystalline Cellulose
- **Purity:** >99%
- **Impurities:** Trace amounts of residual moisture

3. Hazards Identification

- **Emergency Overview:** Non-toxic, non-flammable, odorless, and inert powder.
 - **Potential Health Effects:** Inhalation may cause mild respiratory irritation; prolonged exposure to dust may cause sneezing or coughing.
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4. First Aid Measures

- **Inhalation:** Move to fresh air; consult physician if symptoms persist.
 - **Skin Contact:** Wash with soap and water.
 - **Eye Contact:** Rinse with plenty of water for 15 minutes; consult a physician if irritation persists.
 - **Ingestion:** Generally regarded as safe; in case of large ingestion, seek medical advice.
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5. Fire Fighting Measures

- **Flammability:** Not flammable, but dust may pose minor explosion hazard.
 - **Suitable Extinguishing Media:** Water spray, dry chemical, foam, or CO₂.
 - **Protective Equipment:** Use self-contained breathing apparatus if necessary.
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6. Accidental Release Measures

- **Personal Precautions:** Avoid dust formation; wear protective mask.
 - **Environmental Precautions:** Prevent entry into water bodies.
 - **Cleanup Methods:** Sweep or vacuum; avoid dry sweeping to reduce dust.
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7. Handling and Storage

- **Handling:** Avoid dust generation and inhalation.
 - **Storage:** Store in a cool, dry, well-ventilated area away from moisture and incompatible substances.
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8. Exposure Controls / Personal Protection

- **Occupational Exposure Limit:** Not established; use standard dust limits.
- **Engineering Controls:** Adequate ventilation.

- **Personal Protection:** Dust mask, safety goggles, gloves, and protective clothing.
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9. Physical and Chemical Properties

- **Appearance:** White, odorless, tasteless powder
 - **pH:** 5.0 – 7.0 (1% aqueous)
 - **Melting Point:** Decomposes on heating
 - **Solubility:** Insoluble in water, alcohol, and most organic solvents
 - **Bulk Density:** 0.3 – 0.5 g/cm³
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10. Stability and Reactivity

- **Chemical Stability:** Stable under normal conditions
 - **Conditions to Avoid:** High humidity, strong acids or bases
 - **Incompatible Materials:** Strong oxidizing agents
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11. Toxicological Information

- **Acute Toxicity:** Non-toxic
 - **Chronic Toxicity:** No known chronic effects
 - **Carcinogenicity:** Not classified as carcinogenic
 - **Mutagenicity & Reproductive Effects:** No data indicating harmful effects
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12. Ecological Information

- **Environmental Impact:** Biodegradable, low ecotoxicity
 - **Mobility:** Insoluble in water; minimal risk to aquatic life
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13. Disposal Considerations

- Dispose in accordance with local regulations.
- Avoid release to the environment.
- Can be incinerated under controlled conditions.

14. Transport Information (Detailed)

- **UN Number:** Not classified as hazardous
- **UN Proper Shipping Name:** Not applicable
- **Transport Hazard Class:** Not classified
- **Packing Group:** Not applicable
- **Transport via Road/Rail (ADR/RID):** Not restricted; ensure container integrity to prevent dust leakage
- **Air Transport (IATA/ICAO):** Non-hazardous; store in dry, sealed containers
- **Sea Transport (IMDG):** Non-dangerous goods; ensure packaging prevents moisture ingress
- **Labeling Requirements:** No special labeling required under standard transport regulations
- **Precautions During Transport:** Avoid generating dust; keep away from heat and moisture

Note: Microcrystalline cellulose is generally regarded as safe for transportation as it is non-toxic, non-flammable, and chemically inert. However, dust may cause minor respiratory irritation, so sealed containers are recommended.

15. Regulatory Information

- **Compliance:** BP Grade, conforms to international safety standards
- **Regulations:** Not classified under OSHA, EU CLP, or WHMIS for hazard
- **Labeling:** Not required; precautionary measures recommended

16. Other Information

- **Disclaimer:** The information provided is based on current knowledge and intended to describe safety requirements. It is not a guarantee of product properties.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.

