

# Material Safety Data Sheet (MSDS)

**Product Name:** Micro Crystalline Cellulose -101 USP 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:** Microcrystalline Cellulose – 101

**Grade:** USP

**CAS No.:** 9004-34-6

**Molecular Formula:**  $(C_6H_{10}O_5)_n$

**Recommended Use:** Pharmaceutical excipient, food additive, nutraceutical and cosmetic applications

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## 2. Hazard Identification

- Classified as **non-hazardous** under GHS
- Dust may cause mild mechanical irritation
- No known acute or chronic health hazards under normal use

**GHS Classification:** Not classified

**Signal Word:** None

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### 3. Composition / Information on Ingredients

**Chemical Name:** Microcrystalline Cellulose

**Purity:** ≥ 97.0% (USP)

**CAS No.:** 9004-34-6

**EC No.:** 232-674-9

**Nature:** Polymer of glucose

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### 4. First Aid Measures

**Inhalation:**

Move to fresh air. If irritation persists, seek medical advice.

**Skin Contact:**

Wash with soap and water. No special treatment required.

**Eye Contact:**

Rinse cautiously with water for several minutes. Remove contact lenses if present.

**Ingestion:**

Rinse mouth. Drink water. Seek medical advice if discomfort occurs.

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### 5. Fire Fighting Measures

**Flammability:** Combustible solid (dust form)

**Suitable Extinguishing Media:** Water spray, foam, CO<sub>2</sub>, dry chemical powder

**Special Hazards:**

Dust may form explosive mixtures with air under extreme conditions

**Protective Equipment:**

Self-contained breathing apparatus (SCBA) recommended

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### 6. Accidental Release Measures

- Avoid dust generation
  - Sweep or vacuum using dust-proof equipment
  - Dispose of collected material in accordance with local regulations
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### 7. Handling and Storage

**Handling:**

- Avoid dust formation
- Use adequate ventilation

**Storage:**

- Store in a cool, dry place
- Keep container tightly closed
- Protect from moisture

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## 8. Exposure Controls / Personal Protection

**Exposure Limits:** Not established

**Engineering Controls:**

Local exhaust ventilation recommended

**Personal Protective Equipment (PPE):**

- Respiratory protection if dust is generated
- Safety goggles
- Protective gloves

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## 9. Physical and Chemical Properties

- **Appearance:** White or almost white powder
- **Odor:** Odorless
- **pH:** 5.0 – 7.5 (suspension)
- **Solubility:** Insoluble in water
- **Bulk Density:** Approx. 0.25 – 0.35 g/cm<sup>3</sup>
- **Melting Point:** Not applicable (decomposes)

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## 10. Stability and Reactivity

**Stability:** Stable under normal conditions

**Conditions to Avoid:**

Excessive heat, dust accumulation

**Incompatible Materials:**

Strong oxidizing agents

**Hazardous Decomposition Products:**

Carbon monoxide, carbon dioxide

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**11. Toxicological Information**

- Non-toxic by ingestion
- No evidence of carcinogenicity
- Not mutagenic or teratogenic
- Prolonged inhalation of dust may cause mild respiratory irritation

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**12. Ecological Information**

- Biodegradable
- No known adverse environmental effects
- Not toxic to aquatic organisms

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**13. Disposal Considerations**

- Dispose of in accordance with local, regional, and national regulations
- Can be disposed of as non-hazardous industrial waste

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**14. Transport Information (Detailed)**

**UN Number:** Not applicable

**UN Proper Shipping Name:** Not regulated

**Transport Hazard Class:** Not classified as hazardous

**ADR / RID (Road/Rail):**

- Not dangerous goods
- No special labeling or documentation required

**IMDG (Sea Transport):**

- Not regulated as dangerous goods
- No marine pollutant classification

**IATA / ICAO (Air Transport):**

- Not restricted
- No special packaging instructions

**Special Transport Precautions:**

- Transport in tightly sealed bags or containers
- Protect from moisture and physical damage
- Avoid excessive dust generation during loading/unloading

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## **15. Regulatory Information**

- Complies with USP standards
- Not classified as hazardous under GHS, OSHA, or EU regulations
- Approved for pharmaceutical and food use as per applicable regulations

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## **16. Other Information**

The information provided in this MSDS is based on current knowledge and is intended for guidance on safe handling, use, storage, and disposal. It does not constitute a warranty or guarantee of product properties.

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- **Website:** [www.rawpharmabiz.com](http://www.rawpharmabiz.com)
- MSDS are based on the manufacturer's provided information.