

# Material Safety Data Sheet (MSDS)

**Product Name:** Copper Gluconate 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:** Copper Gluconate USP Grade

**Chemical Name:** Copper (II) Gluconate

**Synonyms:** Cupric Gluconate

## Recommended Use:

Nutritional supplements, pharmaceutical formulations, food fortification, laboratory reagent.

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## 2. Hazard Identification

### GHS Classification:

Not classified as hazardous according to GHS guidelines.

### Potential Health Effects:

- **Inhalation:** Dust may cause mild irritation to respiratory tract.
- **Skin Contact:** Prolonged contact may cause mild irritation.
- **Eye Contact:** Dust particles may cause eye irritation.
- **Ingestion:** Excess intake may cause gastrointestinal discomfort such as nausea or vomiting.

**Environmental Hazards:**

Copper compounds may be harmful to aquatic life if released in large quantities.

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**3. Composition / Information on Ingredients**

Copper Gluconate USP Grade is a single-component substance.

It contains **Copper (II) Gluconate** with a purity of **not less than 98%**, complying with **USP specifications**.

**CAS Number:** 527-09-3.

No additional hazardous impurities are present within applicable limits.

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**4. First Aid Measures****Inhalation:**

Move the affected person to fresh air. Seek medical attention if symptoms persist.

**Skin Contact:**

Wash thoroughly with soap and water. Remove contaminated clothing.

**Eye Contact:**

Rinse cautiously with clean water for at least 15 minutes. Obtain medical attention if irritation continues.

**Ingestion:**

Rinse mouth. Do not induce vomiting. Consult a physician if large amounts are swallowed.

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**5. Fire-Fighting Measures****Suitable Extinguishing Media:**

Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical powder, or foam.

**Specific Hazards:**

Thermal decomposition may produce copper oxides.

**Protective Equipment:**

Firefighters should wear self-contained breathing apparatus and protective clothing.

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**6. Accidental Release Measures****Personal Precautions:**

Avoid dust formation. Use appropriate personal protective equipment.

**Environmental Precautions:**

Prevent material from entering drains, soil, or waterways.

**Methods for Cleanup:**

Sweep up carefully and place in suitable, labeled containers for disposal.

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## 7. Handling and Storage

**Handling:**

Use with adequate ventilation. Avoid inhalation of dust and contact with eyes.

**Storage:**

Store in a cool, dry, and well-ventilated area in tightly closed containers.

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## 8. Exposure Controls / Personal Protection

**Exposure Limits:**

No occupational exposure limits established.

**Engineering Controls:**

General ventilation is normally sufficient.

**Personal Protective Equipment:**

Protective gloves, safety goggles, and dust mask when required.

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## 9. Physical and Chemical Properties

- Appearance: Blue to blue-green crystalline powder
  - Odor: Odorless
  - Solubility: Soluble in water
  - pH: Slightly acidic
  - Melting Point: Decomposes
  - Density: Not determined
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## 10. Stability and Reactivity

**Chemical Stability:**

Stable under recommended storage conditions.

**Incompatible Materials:**

Strong oxidizing agents.

**Hazardous Decomposition Products:**

Copper oxides may form when heated.

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## 11. Toxicological Information

Low toxicity under normal use. Excessive exposure may cause gastrointestinal irritation.

Not classified as carcinogenic by IARC, NTP, or OSHA.

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## 12. Ecological Information

May be toxic to aquatic organisms in high concentrations.

Expected to be biodegradable under environmental conditions.

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## 13. Disposal Considerations

Dispose of material in accordance with local, state, and national regulations. Avoid environmental contamination.

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## 14. Transport Information (Detailed)

**UN Number:** Not assigned

**UN Proper Shipping Name:** Not regulated

**Transport Hazard Class:** Not classified as dangerous goods

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

Not regulated. No hazard labeling required. Ensure packaging is intact and protected from moisture.

**Sea Transport (IMDG):**

Not classified as dangerous goods. Not a marine pollutant. Containers must be sealed properly.

**Air Transport (IATA):**

Not restricted. Standard packaging acceptable.

**Special Precautions:**

Avoid moisture, heat, and container damage during transport. Transport only in properly labeled containers.

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## 15. Regulatory Information

Complies with USP standards.

Not classified as hazardous under GHS regulations.

Subject to applicable pharmaceutical and nutraceutical regulatory requirements.

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## 16. Other Information

The information provided is believed to be accurate as of the revision date. This MSDS is intended as a guide for safe handling and does not constitute a guarantee of product properties.

- **MSDS Generate Date:** 20-05-2017
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- **Website:** [www.rawpharmabiz.com](http://www.rawpharmabiz.com)
- MSDS are based on the manufacturer's provided information.