

MATERIAL SAFETY DATA SHEET

Review Date: 26.09.2026

1. Identification

Product Name: Zinc Gluconate

CAS No: 4468-02-4

Synonym: Zinc(II) gluconate; Zinc bis(D-gluconate)

Recommended Use: Pharmaceutical, nutraceutical, food, laboratory and industrial applications.

Details of the supplier of the safety data sheet

Company: Chemignition Laboratory. India.

Emergency Contact detail: www.chemignition.com

2. Hazard(s) identification

GHS Classification: Not classified as hazardous in the supplier SDS reviewed; use normal dust-control precautions.

Signal Word: None

Hazard Statements:

No hazard statements required under GHS/OSHA classification.

Dust may cause mild mechanical irritation to eyes or respiratory tract.

Pictograms: None required

3. Composition/Information on Ingredients

Substance: Zinc Gluconate

Purity: As per applicable Chemignition product specification / batch COA

Chemical Formula: $C_{12}H_{22}O_{14}Zn$

Molecular Weight: 455.67 g/mol

Concentration: Product supplied as the named substance; see batch COA/specification

4. First-Aid Measures

General: Remove contaminated clothing and wash before reuse.

Inhalation: Move to fresh air. If symptoms persist, seek medical attention.

Skin Contact: Wash with soap and water. Get medical help if irritation occurs.

Eye Contact: Rinse with plenty of water for at least 15 minutes. Seek medical attention if irritation continues.

Ingestion: Rinse mouth with water. If large amount is ingested, seek medical help.

5. Fire-Fighting Measures

Flammability: Non-flammable.

Suitable Extinguishing Media: Use extinguishing media suitable for surrounding fire.

Protective Equipment: Firefighters wear self-contained breathing apparatus.

6. Accidental release measures

Personal Precautions: Use appropriate PPE. Avoid breathing dust.

Environmental Precautions: Prevent entry into sewers or water systems.

Cleanup Methods: Collect carefully without generating dust and place in a suitable closed container.

7. Handling and storage

Handling: Avoid dust inhalation and eye/skin contact.

Storage: Store in tightly closed container. Keep in cool, dry, well-ventilated place.

8. Exposure Controls/Personal Protection

Engineering Controls: Provide adequate ventilation where dust is generated.

Personal Protective Equipment:

Respiratory: Use an approved particulate respirator if dust exposure is excessive.

Hands: Chemical resistant gloves.

Eyes: Safety goggles or face shield.

Body: Lab coat or protective clothing.

9. Physical and Chemical Properties

Appearance: White powder or granules

Odor: Odourless

Boiling Point: Not available

pH: 5.5-7.5 (grade dependent)

Solubility: Soluble in water; solubility may vary with hydration state and grade

10. Stability and Reactivity

Stability: Stable under normal conditions

Conditions to Avoid: Excessive heat, moisture and dust generation.

Incompatible Materials: Strong oxidising agents

Hazardous Decomposition Products: Carbon oxides and zinc oxide

11. Toxicological Information

Acute Toxicity

Acute Toxicity: No product-specific numerical acute-toxicity value is used here unless supported by the exact supplied-grade SDS.

Potential Health Effects:

Inhalation: Dust may cause mechanical irritation.

Skin: Prolonged or repeated dust contact may cause irritation.

Eyes: Dust may cause mechanical irritation.

Ingestion: Large amounts may cause gastrointestinal discomfort; seek medical advice if symptoms occur.

12. Ecological Information

Ecotoxicity: Avoid uncontrolled release to drains and the environment.

Persistence and Degradability: No reliable product-specific data available.

Bioaccumulation/Accumulation: No reliable product-specific data available.

Mobility: No reliable product-specific data available.

13. Disposal Considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a Hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport Information

UN Number: Not regulated as hazardous for transport based on available information.

DOT/IMDG/IATA: Not classified as dangerous goods based on available information.

15. Regulatory Information

OSHA/GHS: Classification should be confirmed against the exact supplied grade and applicable jurisdiction.

GHS labelling: Apply only where required by the product-specific classification.

Transport/regulatory classification: Confirm for the exact grade and destination before shipment.

Food/pharmaceutical use is subject to the applicable grade and destination-market regulations.

CAS 4468-02-4; formula $C_{12}H_{22}O_{14}Zn$; molecular weight 455.67 g/mol. Grade-specific regulatory requirements remain applicable.

16. Other Information

Prepared By: Chemignition Laboratory

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, Transportation, disposal and release and is not to be considered a warranty or quality specification. The information Relates only to the specific material designated and may not be valid for such material used in combination with any other Materials or in any process, unless specified in the text.

End of MSDS