

Material Safety Data Sheet (MSDS)

Product Name: Zinc Carbonate Technical 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: Zinc Carbonate Technical Grade

Chemical Formula: ZnCO_3

Molecular Weight: 125.39 g/mol

Synonyms: Zinc(II) carbonate, Smithsonite (natural mineral form)

Recommended Use: Used in rubber industry, ceramics, catalyst production, and as a chemical reagent.

2. Hazard Identification

Classification (according to GHS):

- Eye irritation, Category 2B
- Acute toxicity (Oral), Category 4
- Skin irritation, Category 3
- Aquatic chronic toxicity, Category 3

Signal Word: Warning

Hazard Statements:

- H302: Harmful if swallowed
- H320: Causes eye irritation
- H316: Causes mild skin irritation
- H412: Harmful to aquatic life with long lasting effects

Precautionary Statements:

- P264: Wash hands thoroughly after handling
- P270: Do not eat, drink or smoke when using this product
- P273: Avoid release to the environment
- P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

3. Composition / Information on Ingredients

Zinc Carbonate Technical Grade is a single-component inorganic compound. The primary ingredient is **Zinc Carbonate (CAS No. 3486-35-9, EC No. 222-477-6)** with a purity of not less than **98%**. It may contain trace impurities of zinc oxide or moisture, which do not significantly affect its chemical or safety characteristics.

4. First Aid Measures

Inhalation: Move person to fresh air. Seek medical attention if symptoms occur.

Skin Contact: Wash with plenty of soap and water. Get medical advice if irritation persists.

Eye Contact: Rinse immediately with plenty of water for at least 15 minutes. Seek medical help if irritation develops.

Ingestion: Rinse mouth with water. Do not induce vomiting. Seek medical attention immediately.

Most Important Symptoms: Coughing, irritation to mucous membranes, nausea, abdominal pain.

5. Fire-Fighting Measures

Suitable Extinguishing Media: Water spray, foam, carbon dioxide (CO₂), or dry chemical powder.

Unsuitable Media: None known.

Special Hazards: Not flammable; may release zinc oxide fumes at high temperatures.

Protective Equipment: Use self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

Personal Precautions: Avoid dust formation; wear protective gloves, goggles, and mask.

Environmental Precautions: Prevent entry into drains and watercourses.

Methods for Cleaning Up: Sweep up carefully and place in suitable labeled containers for disposal. Avoid generating dust.

7. Handling and Storage

Handling:

- Avoid contact with skin, eyes, and clothing.
- Use in well-ventilated areas.
- Avoid creating or inhaling dust.

Storage:

- Store in a cool, dry, and well-ventilated place.
 - Keep container tightly closed.
 - Store away from acids and moisture.
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8. Exposure Controls / Personal Protection

Exposure Limits: No specific occupational exposure limits established for Zinc Carbonate.

Engineering Controls: Provide adequate ventilation or dust extraction.

Personal Protective Equipment:

- **Respiratory Protection:** Dust mask or respirator (N95 or equivalent).
- **Eye Protection:** Safety goggles.

- **Skin Protection:** Gloves and protective clothing.
- **Hygiene Measures:** Wash hands before breaks and after work.

9. Physical and Chemical Properties

Zinc Carbonate Technical Grade appears as a white to off-white powder with no characteristic odor. It has a pH between 7.0 and 9.0 when suspended in water. The substance decomposes before melting and is insoluble in water but soluble in acids. Its density is approximately 4.4 g/cm³, and it has a molecular weight of 125.39 g/mol. Zinc Carbonate is non-flammable and has negligible vapor pressure under normal conditions.

10. Stability and Reactivity

Stability: Stable under normal conditions.

Incompatible Materials: Strong acids, strong oxidizers.

Decomposition Products: Zinc oxide and carbon dioxide on heating.

Hazardous Polymerization: Will not occur.

11. Toxicological Information

Acute Toxicity: Oral (rat) LD50 > 2000 mg/kg

Skin Corrosion/Irritation: Mild irritant

Eye Damage/Irritation: Causes eye irritation

Chronic Effects: Long-term exposure may affect gastrointestinal and respiratory systems.

12. Ecological Information

Ecotoxicity: Harmful to aquatic organisms in high concentrations.

Persistence and Degradability: Inorganic substance; not biodegradable.

Bioaccumulative Potential: Low.

Mobility in Soil: Low mobility due to low solubility.

13. Disposal Considerations

Product Disposal: Dispose of in accordance with local regulations.

Packaging Disposal: Dispose of contaminated packaging as industrial waste.

14. Transport Information (Detailed)

UN Number: Not applicable (non-hazardous for transport)

UN Proper Shipping Name: Zinc Carbonate Technical Grade

Transport Hazard Class: Not classified as hazardous under ADR/RID, IMDG, or IATA.

Packing Group: Not applicable

Environmental Hazards:

- Not classified as a marine pollutant.
- Avoid discharge into waterways and soil.

Special Precautions for User:

- Ensure containers are well sealed and secured during transport.
- Avoid generating dust during loading/unloading.
- Keep away from moisture, acids, and incompatible substances.

Transport in Bulk (Annex II of MARPOL / IBC Code):

Not applicable, as the material is not transported in bulk.

Regulatory References:

- ADR (Europe): Not regulated
 - IMDG (Maritime): Not regulated
 - IATA (Air): Not regulated
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15. Regulatory Information

Regulation:

- Classified according to Regulation (EC) No. 1272/2008 (CLP Regulation).
- Not listed as a hazardous chemical under Indian Factories Act, 1948.

Labelling Requirements: Hazard statements and pictograms as per GHS guidelines.

16. Other Information

Disclaimer:

The information provided above is believed to be accurate and represents the best data currently available. Users are responsible for ensuring safe handling and compliance with applicable regulations.

- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.