

MATERIAL SAFETY DATA SHEET

Revision Date: 01.12.2025

1. Identification

Product Name: Zinc Oxide

CAS No: 1314-13-2

Synonym: No information available

Recommended Use: Laboratory chemicals, industrial use, pharmaceuticals.

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 under GHS.

Signal Word: None

Hazard Statements:

- May cause mild irritation to eyes, skin, or respiratory system.
- Generally regarded as safe (GRAS) in permitted applications.

Pictograms: None required

3. Composition/Information on Ingredients

Substance: Zinc Oxide

Purity: $\geq 99\%$

Chemical Formula: ZnO

Concentration: $\geq 99\%$

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: Fire-fighters wear self-contained breathing apparatus.

6. Accidental release measures

Personal Precautions: Use PPE. Avoid breathing dust.

Environmental Precautions: Prevent entry into sewers or water systems.

Cleanup Methods: Sweep and collect into suitable 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: Local exhaust ventilation required.

Personal Protective Equipment:

- **Respiratory:** NIOSH approved respirator if exposure limits are exceeded.
- **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 crystalline solid

Odor: Odorless

Melting Point: Not available

Boiling Point: Not applicable

pH: Not available

Solubility: Soluble in water

10. Stability and Reactivity

Stability: Stable under normal conditions

Conditions to Avoid: Heat, moisture

Incompatible Materials: Strong acids, oxidizing agents

Hazardous Decomposition Products: Toxic fumes of carbon oxides and metal oxides

11. Toxicological Information

Acute Toxicity: Low toxicity

Potential Health Effects:

- **Inhalation:** May cause respiratory irritation.

- Skin: May cause mild irritation.
- Eyes: May cause irritation.
- Ingestion: May cause nausea or abdominal discomfort.

12. Ecological Information

Ecotoxicity: Not expected to be harmful to aquatic life.

Persistence and Degradability: Readily biodegradable.

Bioaccumulation: No data.

Mobility: Soluble in water.

13. Disposal Considerations

Chemical waste generators must ensure disposal complies with local, regional, and national regulations.

14. Transport Information

UN Number: Not regulated as hazardous for transport.

DOT/IMDG/IATA: Not classified as dangerous goods.

15. Regulatory Information

Complies with OSHA Hazard Communication Standard (29 CFR 1910.1200)

GHS Labels and Classification apply

Not classified as hazardous under most international regulations.

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