

Material Safety Data Sheet (MSDS)

Product Name: Zinc Oxide Dross
MSDS Generate Date: 20-05-2017
Revision Date: 30-12-2024

Manufacturer / Supplier:

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1. Identification of the Substance/Preparation and of the Company

- **Chemical Name:** Zinc Oxide Dross
- **Synonyms:** ZnO Dross, Zinc Slag
- **CAS Number:** 1314-13-2 (Zinc Oxide)
- **Chemical Formula:** ZnO

2. Composition / Information on Ingredients

- **Zinc Oxide:** 80–95%
- **Other trace metals:** Iron, Lead, Cadmium (depending on source)
- **Impurities:** Small quantities of metallic residues

3. Hazard Identification

- **Emergency Overview:** White to gray powder, low solubility in water, may cause irritation to eyes, skin, and respiratory tract.

- **GHS Classification:**
 - Eye Irritation: Category 2A
 - Skin Irritation: Category 2
 - Specific Target Organ Toxicity (Repeated Exposure): Category 2
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4. First-Aid Measures

- **Inhalation:** Move to fresh air; if breathing is difficult, seek medical attention.
 - **Skin Contact:** Wash with soap and water; remove contaminated clothing.
 - **Eye Contact:** Rinse thoroughly with water for at least 15 minutes; seek medical attention if irritation persists.
 - **Ingestion:** Do not induce vomiting; rinse mouth and seek medical advice.
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5. Fire-Fighting Measures

- **Flammability:** Non-combustible.
 - **Suitable Extinguishing Media:** Use water spray, dry chemical, foam, or CO₂.
 - **Special Firefighting Procedures:** Wear protective equipment; avoid inhalation of smoke.
 - **Hazardous Combustion Products:** May emit zinc fumes at very high temperatures.
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6. Accidental Release Measures

- **Personal Precautions:** Wear protective gloves, goggles, and dust mask.
 - **Environmental Precautions:** Prevent entry into water bodies and drains.
 - **Methods for Cleaning:** Sweep or vacuum; avoid generating dust; place in suitable containers for disposal.
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7. Handling and Storage

- **Handling:** Avoid inhalation of dust; use adequate ventilation.
- **Storage:** Store in a dry, cool, and well-ventilated area; keep container tightly closed.

8. Exposure Controls / Personal Protection

- **Occupational Exposure Limits:**
 - Zinc Oxide: OSHA PEL 5 mg/m³ (respirable fraction), ACGIH TLV 2 mg/m³
- **Engineering Controls:** Local exhaust ventilation recommended.
- **Personal Protective Equipment (PPE):** Gloves, safety goggles, dust mask or respirator.

9. Physical and Chemical Properties

- **Appearance:** White to gray powder
- **Odor:** Odorless
- **Melting Point:** 1975°C
- **Boiling Point:** 2360°C
- **Density:** 5.61 g/cm³
- **Solubility:** Insoluble in water, soluble in acids

10. Stability and Reactivity

- **Chemical Stability:** Stable under normal conditions.
- **Conditions to Avoid:** High humidity, strong acids, and strong reducing agents.
- **Incompatible Materials:** Strong acids, strong bases, and halogens.
- **Hazardous Decomposition Products:** Zinc fumes may form at high temperatures.

11. Toxicological Information

- **Acute Toxicity:** Low; ingestion or inhalation may cause irritation.
- **Chronic Toxicity:** Prolonged exposure may affect lungs or kidneys due to zinc compounds.
- **Routes of Exposure:** Inhalation, ingestion, skin, and eye contact.

12. Ecological Information

- **Persistence and Degradability:** Not biodegradable.
- **Ecotoxicity:** Harmful to aquatic life if released in large quantities.
- **Mobility:** Low in soil; insoluble in water.

13. Disposal Considerations

- Dispose of according to local environmental regulations.
- Avoid dumping in water bodies or soil.
- Use authorized waste disposal facilities.

14. Transport Information (Detailed)

- **UN Number:** Not regulated under UN for transport
- **UN Proper Shipping Name:** Not classified as hazardous
- **Transport Hazard Class:** N/A
- **Packing Group:** N/A
- **Environmental Hazards:** Not classified as marine pollutant, but avoid release to the environment.
- **Transport Precautions:**
 - Handle containers with care to prevent spillage.
 - Ensure containers are tightly closed and upright during transport.
 - Avoid transport with strong acids or reactive chemicals.
- **Special Transport Notes:**
 - For bulk transport, ensure dust containment measures are in place.
 - Road transport: Comply with local road safety regulations.
 - Rail transport: Secure containers to avoid shifting.

- Air transport: Avoid excessive vibration or compression that may rupture packaging.

15. Regulatory Information

- Complies with OSHA, EPA, and local environmental and safety regulations.
- Not classified as a hazardous chemical under GHS for transport.

16. Other Information

- **Disclaimer:** The information provided in this MSDS is based on current knowledge and experience. It does not constitute a guarantee of properties. Users must satisfy themselves as to the suitability and completeness of the information for their own use.
- **MSDS Generate Date:** 20-05-2017
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- **Website:** www.sbfpharma.com
- MSDS are based on the manufacturer's provided information.