

OXFORD LAB FINE CHEM LLP

ISO 9001-2008 Certified Company

Regd Office: Unit no 12, 1st Floor,
Neminath Industrial Estate No.6,
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MATERIAL SAFETY DATA SHEET

CALAMINE Extra Pure MSDS CAS: 8011-96-9

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: Calamine

CAS#: 8011-96-9

Synonym: Calamine Powder; Zinc white; flowers of zinc; Chinese white

Chemical Name: Zinc Oxide + Ferric Oxide

Chemical Formula: ZnO + FE₂O₃

Brand : OXFORD

Details Of The Supplier Of The Safety Data Sheet :

Company identification: OXFORD LAB FINE CHEM LLP
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,
Navghar, Vasai (East). Palghar - 401 210.
Mumbai, Maharashtra, INDIA.
Tel: 91-250-2390989
Tel/Fax: 91-250-2390032

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Zinc Oxide	1314-13-2	99.5
Fe ₂ O ₃		0.5

Toxicological Data on Ingredients: Calamine: ORAL (LD50): Acute: 7950 mg/kg [Mouse].

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Section 3: Hazards Identification

Potential Acute Health Effects :

Hazardous in case of inhalation. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion.

Potential Chronic Health Effects :

CARCINOGENIC EFFECTS: Not available. **MUTAGENIC EFFECTS:** Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. **TERATOGENIC EFFECTS:** Not available. **DEVELOPMENTAL TOXICITY:** Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4: First Aid Measures

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Serious Skin Contact: Not available.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Non-flammable.

Auto-Ignition Temperature : Not applicable.

Flash Points: Not applicable.

Section 5: Fire and Explosion Data (Continued)

Flammable Limits: Not applicable

Products of Combustion: Not applicable

Fire Hazards in Presence of Various Substances: Not applicable

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions: Not applicable.

Special Remarks on Fire Hazards: Soluble in dilute acetic acid or mineral acid, ammonia, ammonium carbonate, and fixed alkali hydroxide solution

Special Remarks on Explosion Hazards: May explode when mixed with chlorinated rubber. Zinc Oxide and Magnesium can react explosively when heated.

Section 6: Accidental Release Measures

Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:

Keep locked up.. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label.

Storage:

Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 25°C (77°F).

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:

Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: TWA: 5 STEL: 10 (mg/m³) from ACGIH (TLV) [United States] Inhalation TWA: 15 (mg/m³) from OSHA (PEL) [United States] Inhalation Total. TWA: 5 STEL: 10 CEIL: 25 (mg/m³) from NIOSH Inhalation TWA: 5 STEL: 10 (mg/m³) from OSHA (PEL) [United States] Inhalation Respirable. Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid. (Powdered solid.)

Odor	: Odorless
Taste	: Not available
Molecular Weight	: 81.38 g/mole for Zinc Oxide.
Color	: Pink
pH (1% soln/water)	: Not applicable
Boiling Point	: Not available.
Melting Point	: 1975°C (3587°F)
Critical Temperature	: Not available.
Specific Gravity	: 5.607 - 5.7 (Water = 1)
Vapor Pressure	: Not applicable.
Vapor Density	: Not available.
Volatility	: Not available.
Odor Threshold	: Not available.
Water/Oil Dist. Coeff.	: Not available.

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Section 9: Physical and Chemical Properties (Continued)

Ionicity (in Water) : Not available.

Dispersion Properties : Not available.

Solubility : Insoluble in cold water, hot water. Soluble in dilute acetic acid or mineral acid, ammonia, ammonium carbonate, and fixed alkali hydroxide solution.

Section 10: Stability and Reactivity Data

Stability : The product is stable.

Instability Temperature : Not available.

Conditions of Instability : Incompatible materials

Incompatibility with various substances : Not available.

Corrosivity : Non-corrosive in presence of glass

Special Remarks on Reactivity : Reacts violently with magnesium, linseed oil. Reacts with hydrochloric acid to produce zinc chloride. Reacts with sulfuric acid to produce zinc sulfate. Reacts with hydrogen fluoride to produce zinc fluoride tetrahydrate. Gradually absorbs CO₂ on exposure to air. Sublimes at normal pressure. Zinc Oxide reacts with Carbon Monoxide or hydrogen to produce elemental zinc.

Special Remarks on Corrosivity : Not available.

Polymerization : Will not occur.

Section 11: Toxicological Information

Routes of Entry: Inhalation. Ingestion.

Toxicity to Animals: Acute oral toxicity (LD₅₀): 7950 mg/kg [Mouse].

Chronic Effects on Humans:

MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast.

Section 11: Toxicological Information (Continued)

Other Toxic Effects on Humans:

Hazardous in case of inhalation. Slightly hazardous in case of skin contact (irritant), of ingestion.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans:

May cause adverse reproductive effects based on animal data. No human data found at this time. May affect genetic material (mutagenic).

Special Remarks on other Toxic Effects on Humans :

Acute Potential Health Effects: May cause mild skin irritation. **Eyes:** May cause mechanical eye irritation and conjunctivitis. **Inhalation:** May cause mechanical irritation of the respiratory tract. A few sources claim that finely divided zinc oxide dust can cause "metal fume fever." Zinc oxide dust is generally considered a nuisance dust; adverse effects are unlikely when exposures are kept under reasonable control. Inhalation of high concentrations of Zinc Oxide fume or dust may cause "Metal Fume Fever." Symptoms of metal fume fever may include a flu-like condition involving headache, chills, fever, sweats, nausea, vomiting, cough, muscle aches and pains, and difficulty breathing, ; ulmonary edema. May also affect the liver. **Ingestion:** May cause digestive tract irritation although Zinc oxide has a low toxicity by oral exposure route. **Chronic Potential Health Effects:** Ingestion: Prolonged or repeated ingestion of zinc oxide may affect blood, metabolism, and the thyroid.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation : Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

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Section 13: Disposal Considerations

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

Land transport (ADR-RID)

General information : Not regulated.

Sea transport (IMDG) [English only]

General information : Not regulated.

Air transport (ICAO-IATA) [English only]

General information : Not regulated.

Section 15: Other Regulatory Information

Federal and State Regulations: Illinois toxic substances disclosure to employee act: Zinc Oxide; Ferric Oxide Rhode Island RTK hazardous substances: Zinc Oxide Pennsylvania RTK: Zinc Oxide Minnesota: Zinc Oxide; Ferric Oxide Massachusetts RTK: Zinc Oxide; Ferric Oxide New Jersey: Zinc Oxide; Ferric Oxide California Director's List of Hazardous Substances: Zinc Oxide TSCA 8(b) inventory: Zinc Oxide; Ferric Oxide.

Other Regulations:

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances - Zinc Oxide.

Other Classifications:

WHMIS (Canada):

Not controlled under WHMIS (Canada).

DSCL (EEC):

R40- Possible risks of irreversible effects. S2- Keep out of the reach of children. S36/37- Wear suitable protective clothing and gloves.

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Section 15: Other Regulatory Information (Continued)

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 0

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 0

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety glasses.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

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