

CHZINC Zinc Oxide, Uncalcined

MATERIAL SAFETY DATA SHEET

ZINOX 350

NPCA HMIS HAZARD RATING	
Health	1
Flammability	0
Reactivity	0
Maximum Personal Protection	E

SECTION I MANUFACTURER
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CHEMICAL NAME CAS NUMBER APPROX. WT. %
ZINC OXIDE (ZnO) 1314-13-2 97%

SECTION II HAZARDOUS INGREDIENTS

Zinc Oxide 95% Min.

OSHA PEL 15 mg/m³ Total Dust
5 mg/m³ Respirable Fraction
5 mg/m³ Fume

ACGIH TLV/TWA 10 mg/m³ Dust
5 mg/m³ Fume (STEL 10 mg/m³)

Exposure is governed by the 8 hour TWA established for zinc oxide. Zinc oxide is not a carcinogenic material as listed by OSHA (29 CFR 1910) or ACGIH (Appendix A, Threshold Limit Values for Chemical Substances 1995-1996).

SECTION III PHYSICAL DATA

Boiling Point: NA
Specific Gravity: H₂O=1 5.6
Vapor Pressure: NA
Percent Volatile by volume: 0%
Vapor Density: NA
Evaporation Rate: NA
Solubility in Water: Less than 1%
Melting Point: 3590° F
Appearance and Odor: Cream yellow. Fine Powder. No Odor.

SECTION IV FIRE & EXPLOSION HAZARD DATA

Flash Point: NA
Flammable Limits LEL: NA UEL: NA

Extinguishing Media: NA.
Special Fire Fighting Procedures: None known.
Unusual Fire Fighting Procedures: None known.

SECTION V HEALTH HAZARD/FIRST AID DATA

Threshold Limit Value: See Section II
Signs, Symptoms, and Effects of Overexposure: Nausea, chills, diarrhea. May cause respiratory irritation; skin irritation(oxide pox); fever, eye irritation with redness, pain and conjunctivitis; preexisting lung diseases may be aggravated by exposure. Could result in respiratory disease if over exposed on a chronic basis. Moderately toxic to humans by ingestion.
Primary Routes of Entry: Inhalation and/or ingestion.
Emergency and First Aid Procedure: Remove to fresh air. Lay patient down. Cover with blanket. If irritated, flush eyes and skin with large volumes of fresh water for 15 minutes. Refer to physician.

SECTION VI REACTIVITY DATA

Stable X Unstable _____

Conditions and Materials to Avoid. Mass build up under reactive conditions such as but not limited to acids. Zinc oxide may react violently with strong reductants such as organic compounds, including chlorinated rubber at temperatures over 420°F, (a flammability reaction with linseed oil was reported once), and metals including but not limited to Mg.

Hazardous Decomposition Products: Above melting point (3590°F) zinc fumes may result.

Hazardous Polymerization: Will not occur.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled. Clean up with vacuum or conventional tools. Avoid dusting. Wear appropriate PPE. A high efficiency, NIOSH approved, air purifying particulate respirator is recommended if conc. exceeds OSHA PEL.

Waste Disposal: Approved land fill if allowed by local, state and federal authorities.
U.S. EPA Reportable Quantity: 1,000 lbs. (454 Kg)

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiratory Protection: Cartridge type filter or dust mask approved by NOISH. Refer to Respiratory Protective Devices certified by NIOSH under 42 CFR Part 84.

Ventilation: To keep below listed TLV in Section II, use general dilution type ventilation.

Protective Gloves: Wear if skin contact is probable and skin is sensitive.

Eye Protection: Safety glasses or goggles.

Other Protective Equipment: Long sleeve shirts if contact is probable and skin is sensitive.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing: Keep lids tightly sealed. Store in cool, dry place.

Other Precautions: Do not take internally. Avoid prolonged contact with skin. Wash with soap and water after contact.

SECTION X SARA TITLE III

This product contains zinc compounds and is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.