

MATERIAL SAFETY DATA SHEET

SECTION I

Product Name: ZINC OXIDE	Synonyms: Chinese White, ZnO, AZO Product Grades: All Grades
MANUFACTURER'S NAME: U.S. ZINC CORPORATION 5519 N. Cumberland, Suite 1002 Chicago, Illinois 60656	Telephone (24 hour Emergency or Information): 773/380-6776
	Date Revised: 05/03/09 Prepared By: John Stourac

SECTION II – HAZARDOUS INGREDIENTS

Hazardous Component	CAS No.	% Range	ACGIH TLV/OSHA PEL	
Zinc Oxide (dry)	1314-13-2	99.8 ó 100	5* (Resp.)	5* (Resp.)
Lead*	1317-36-8	Trace		50#
Cadmium*	1306-19-0	Trace		5#
*Naturally Occurring Impurity			*mg/m3	#ug/m3

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: N/A	Vapor Pressure: @1500C = 12mm Hg
Melting Point: 1975 C	Evaporation Rate: N/A (Butyl Acetate = 1)
Specific Gravity: 5.68. pH: 7.37	Solubility In Water: Insoluble
Vapor Density: N/A	Appearance & Odor: Odorless white, cream, gray or yellow powder or pellets
Typical particle size: <=1 Micron	

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash Point:	Non-combustible
Extinguishing Media:	N/A

SECTION V – HEALTH HAZARD DATA

Route(s) Of Entry:	1. Inhalation. 2. Mechanical irritation to skin and eyes.
Health Hazards:	Acute respiratory irritant.
Carcinogens:	Zinc Oxide is not a NTP/IARC carcinogen.
Signs & Symptoms of Exposure:	Dry throat, cough, dry itching skin.
Emergency and First Aid Procedures:	Remove from exposure, move to fresh air. Consult physician if acute reactions persist.
Additional Signs & Symptoms:	If excess exposure involves material within 4 hours of its manufacturing, it may cause metal fume fever: chills, metallic taste.

SECTION VI – REACTIVITY DATA	
Stability: Stable.	Shelf life: 1 year (carbonation particulate).
Incompatibility (Material To Avoid): 1. Heated Magnesium. 2. Chlorinated Rubber Above 215C.	
Hazardous Polymerization:	Will not occur.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE	
Steps to be taken in case of material is released or spilled: *If spilled, vacuum to prevent heavy concentration of airborne dust. *Return to labeled container. *Clean-up personnel should wear respirators.	
Waste disposal method: *Material has Recyclable Value. *If disposed of, follow federal, state, and local regulations.	
Precautions to be taken in handling and storing: *Good Housekeeping. *Store in dry cool area. *Keep containers closed.	

SECTION VIII – CONTROL MEASURES	
Respiratory protection:	Use NIOSH approved dust filter respirator.
Ventilation:	Local exhaust recommended.
Protective gloves:	Recommended.
Eye Protection:	Recommended.
Protective clothing & equipment:	Recommended with bulk dust.
Work/hygienic practices:	Wash well after handling.
HMIS System:	Hazard Rating: 0 = Minimal 3 = Serious
Health 1	1 = Slight 4 = Severe
Flammability 0	2 = Moderate
Reactivity 0	Personal Protective Index:
Personal Protection E	E = Gloves + Dust Mask + Safety Goggles.

SECTION IX – REGULATORY INFORMATION	
TSCA: On Inventory. RCRA 261: TCLP Determination Pb, Cd. CERCLA 102/103:Name List, RQ=None. DOT 172: Not Regulated. FCC: Listed. FDA: GRAS 182.5991 (Generally Recognized as Safe). Food can linings: 175.300(b)(2). Rubber: 177.2600(c)(1). Color: 73.1991, 2991.	SARA 302: RQ=None, TPQ=None. SARA 311/312: Yes (Acute). SARA 313: Compounds: Zn, Pb. Prop. 65: Yes (Pb, Cd). NSF 60/61: Submitted: NSF, UL. NAFTA: 2817.00.0000, Sched: B. CAA 112, 61 HAP: No. FIFRA 152 et seq.: No. ODS/ODC 82: No. CONEG: Compliant.