

MATERIAL SAFETY DATA SHEET

SECTION I — PRODUCT IDENTITY AND RESPONSIBLE PARTY

Product Name: ZINC OXIDE Synonyms: Chinese White, ZnO, AZO
 Product Grades: All Grades

SECTION II — HAZARDOUS INGREDIENTS

Hazardous Component	CAS No.	Range	ACGIH TLV/OSHA PEL	
Zinc Oxide (dry)	1314-13-2	ZnO 99.8 – 100	5* (Resp.)	5* (Resp.)
Lead* (*Naturally occurring		PbO j Trace#		50#
Cadmium* (impurities)	1306-19-0	CdO j Trace#	I	5#

#Limit per specific product or customer specification *mg / m3

SECTION III – HEALTH HAZARD DATA

Routes) Of ntry: L 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.
 Excess exposure within hours of ZnO formation may cause metal fume fever chills, metallic taste. Environmental: Zn in solution in excess amounts can be toxic to aquatic organisms.

SECTION IV – FIRST AID PROCEDURES

Move to fresh air. Water rinse area. Consult physician if acute symptoms persist.

SECTION V – FIRE, EXPLOSION AND FIRE FIGHTING DATA

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

SECTION VI — ACCIDENTAL RELEASE MEASURES

If spilled, shovel or vacuum to prevent heavy concentration of airborne dust. Return to labeled container. Material may be recyclable –

SECTION VII— HANDLING AND STORAGE

Practice good housekeeping, store in dry area, keep containers closed.

SECTION VIII — EXPOSURE CONTROLS, PERSONAL PROTECTION

Respiratory protection: Use NIOSH approved dust filter, respirator.
 Ventilation: Local exhaust recommended.
 Protective gloves: Recommended. Protective clothing recommended
 Eye Protection: Recommended. in bulk dust conditions.

SECTION IX — PHYSICAL

Boiling Point: N/A

Melting Point: 1975 C

Specific Gravity: 5.68. pH: 7.37 Vapor Density: N/A

Typical particle size: <= 1 Micron

Revised: January 23, 2007

PHYSICAL CHARACTERISTICS

Vapor Pressure: ~15000 = 12mm Hg Evaporation Rate: N/A (Butyl Acetate = 1)

Solubility In Water: Insoluble

Appearance & Odor: Odorless white, cream, gray or yellow powder or pellets

SECTION X — STABILITY AND REACTIVITY DATA

Stability: Stable. Shelf life: 1 year from factory ship date (carbonation particulate).

Incompatibility (Material To Avoid):

1. Heated Magnesium.

2. Chlorinated Rubber Above 215C.

Hazardous Polymerization: Will not occur.

Decompose in bases, strong acids, strong heated resins and polymers

SECTION XI- TOXICOLOGICAL, SECTION XII - ECOLOGICAL No data available.

SECTION VIII — DISPOSAL CONSIDERATIONS

AZO grades may require TCLP. (In EU only, additional Zn disposal regulations may apply)
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SECTION XIV — TRANSPORT INFORMATION

Not DOT or IMO Regulated.

Regulated within

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SECTION XV — REGULATORY INFORMATION

SARA 302: RQ=None, TPQ=None. SARA 311/312: Yes (Acute).

SARA 313: Compounds: Zn, Pb. Prop. 65: Yes (Pb, Cd).

NAFTA: 2817.00.0000, Sched: B. CAA 112, 61 HAP: No.

FIFRA 152 et seq.: No.

ODS/ODC 82: No.

FDA: Listed as GRAS at 21CFR172.8991 GRAS=Generally Recognized as Safe. Rubber 177.2600(e)(1). Food can linings: 175.300(b)(2). Food Color: 73.1991, 2991.

RCRA 261: TCLY Determination Pb, Cd. CERCLA 102/103: Name List, RQ=None.

NSF 60/61: Submitted: NSF, UL. FCC: Listed. CONEG: Compliant.

TSCA = Yes, on Inventory, Compliant with TSCA. DSL, EINECS, ENCS = Yes, on Inventory.

NDSL, ELINCS = No.

DOT 172, IMO: Not Regulated.

Within EU only: N; R50/53; S60/61

EEA Responsible Party: VAW-IVICO Guss and Recycling Alexis GmbH, Alutiniumstrasse 3. D415 IS Grevenbroldh. Germany, Telephone: +49 2181-1645-180. Attn F R Brenk.

SECTION XVI — OTHER INFORMATION

Health 1, HMIS System: Hazard Rating: 0 = Minimal, I = Slight,

Flammability _____ 0j _____ 2 = Moderate, 3 = Serious, 4 = Severe.
Reactivity _____ 0j Personal Protective Index: _____ E (recommended with bulk
Personal Protection Ei _____ dust only) = Gloves + Dust Mask + Safety_Goggles_'