

MATERIAL SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT IDENTIFICATION

Manufacturer/Distributor : Kobo Products, Inc.
Address : 3474 South Clinton Avenue
South Plainfield, NJ 07080
Emergency Telephone # : (908) 757-0033
Facsimile Number : (908) 757-0905
Trade Name : **ZnO XZ-NJE5**
INCI : Zinc Oxide (and) Jojoba Ester
Chemical Name : Zinc Oxide (and) Jojoba Ester
Material Uses : Pigment, component in personal care products.
Chemical Family : Inorganic Pigment

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS #</u>	<u>EINECS #</u>	<u>Symbol(s)</u>	<u>EU Phrases</u>
Zinc Oxide	1314-13-2	215-222-5		S22/25/36/37
Jojoba Ester	61789-91-1	307-350-6		

SECTION 3: HAZARD IDENTIFICATION

Physical State and Appearance: (odorless, white powder)

Emergency Overview: May cause respiratory tract, eye and skin irritation.

Routes of Entry: Eye contact and Inhalation.

Potential Acute Health Effects

- Eyes:** May cause eye irritation. Symptoms include itching and redness after contact.
Skin: May cause mild skin irritation. Symptoms include itching and redness after contact.
Inhalation: May cause respiratory tract irritation. Symptoms include: coughing, wheezing or shortness of breath when inhaled.
Ingestion: Not hazardous in case of ingestion.

Potential Chronic Health Effects

Additional information See Toxicological information (section 11)

Medical Conditions Overexposure: Aggravated by Repeated or prolonged inhalation of any dust particulate may aggravate respiratory medical conditions.

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. If symptoms persist, seek medical attention.
Skin Contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reusing. Thoroughly clean shoes before reuse. If symptoms develop, seek medical attention.
Inhalation: If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms persist, seek medical attention.
Ingestion: If conscious, give milk to drink, induce vomiting, and call physician.
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SECTION 5: FIRE FIGHTING MEASURES

Flammability: N/A

Fire Fighting Media And Instructions: In case of fire, use water spray (fog), foam, dry chemical, or CO2

Protective Clothing (fire): Wear self-contained breathing apparatus and full protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- Small Spill and Leak** : Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional regulatory requirements.
- Large Spill and Leak** : Use appropriate tools to put the spill material into a labeled waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional regulatory requirements. Check TLV in section 8 of MSDS and with local authorities.
- Spill Kit information** : No specific spill kit required for this product.

SECTION 7: HANDLING AND STORAGE

- Handling** : Avoid generating dust. Avoid breathing dust. Use only with adequate ventilation. Avoid prolonged or repeated contact with skin. Avoid contact with eyes. Keep container closed. Wash thoroughly after handling.
- Storage** : Keep container dry. Keep containers sealed until ready for use.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Levels:	OSHA	ACGIH
<u>Component</u>	<u>OSHA's PEL</u>	<u>ACGIH's TLV</u>
ZnO (Total Dust)	15 mg/m ³	10mg/m ³

Personal Protection:

- Eye:** Safety glasses with side shields or goggles
Body: Lab coat
Respiratory: Use NIOSH/MSHA approved air-purifying respirator as needed to control exposure.
Hand: Recommended: Gloves

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (°C)	: N/A	Percent Volatile By Vol. (%)	: N/A
Freezing Point (°C)	: N/A	Vapor Density (Air=1)	: N/A
Melting Point (°C)	: >1900	Evaporation Rate (Buac=1)	: N/A
Vapor Pressure (mm hg)	: N/A	Solubility In Water	: Insoluble
Bulk Density (g/cbi.)	: N/A	Appearance & Odor	: White powder. No Odor

SECTION 10: STABILITY AND REACTIVITY

- Stable:** Stable
- Hazardous Polymerization:** Will not occur
- Incompatibility:** Strong oxidizing agents.
- Hazardous Decomposition Products:** Nature of decomposition products is not known.

SECTION 11: TOXICOLOGICAL INFORMATION

- Zinc Oxide
- Skin Irritation** : None when 0.5 mL/patch of 50 % water dispersion
- Primary Eye Irritation** : Slight stimulus, Draize Score= 6.67
- Acute Oral Toxicity** : Non-toxic, LD₅₀ > 2 g/kg (rat)
- Acute Skin Toxicity** : Non-toxic, LD₅₀ > 2 g/kg (rat)
- Mutagenicity** : Negative (Ames test)

- Chronic Effects on Humans** : **CARCINOGENIC EFFECTS:** Classified None. By NIOSH [Zinc Oxide]. Classified A4 (not classifiable for human or animal.) by ACGIH, 3 (not classifiable for human.) by IARC [Zinc Oxide].
 Classified None.
MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

Repeated or prolonged exposure to the substance at concentrations above exposure limits may cause respiratory damage.

Target Organs: eyes, lungs, skin.

Acute Effects on Humans May cause eye, and respiratory irritation.

Sensitization Repeated or prolonged exposure to the substance at concentrations above the exposure limits may cause respiratory tract and lung sensitization.

Carcinogenic Effects This material is not known to cause cancer in animals or humans.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity of the Products Of Biodegradation: N/A

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of according to all federal, state and local regulations.

SECTION 14: TRANSPORT INFORMATION

DOT Classification Not regulated.

TDG Classification Not regulated.

IMO/IMDG Classification Not regulated.

ICAO/IATA Classification Not regulated.

SECTION 15: REGULATORY INFORMATION

U.S. Federal Regulations

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 accidental release prevention: No products were found.

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

International Regulations

Labeling according to EC Directives

Symbol(s) ---

R-Phrases ---

S-Phrases S22 Do not breathe dust

S25 Avoid contact with eyes

S36/37 Wear suitable protective clothing and gloves

CEE Norms-Information on warning label.

Symbol : ---

Risk Phrase : ---

Safety advice :

Avoid unnecessary release to the environment. Refer to local and federal regulations if accidental released.

SECTION 16: OTHER INFORMATION

Hazardous Material Information System [Ratings Key: 4= Highest hazard, 0= Lowest hazard]
(U.S.A.)

Health	0
Fire Hazard	0
Reactivity	0
Personal Protection	C

EU S phrases : S22/25/36/37- do not breathe dust, avoid contact with eyes, wear suitable protective clothing and gloves.

Date Prepared : April 25, 2008

Prepared By : Eric Smith

Note:

The statements made here are based upon technical data that Kobo Products Inc. believes to be reliable, are intended to describe the product with regard to necessary safety precautions. They do not guarantee special characteristics. This information is furnished without warranty, expressed or implied, except that it is accurate to the best of our current knowledge.