

# MATERIAL SAFETY DATA SHEET

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## SECTION 1: CHEMICAL PRODUCT IDENTIFICATION

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Manufacturer/Distributor : Kobo Products, Inc.  
Address : 690 Montrose Avenue, So. Plainfield, NJ 07080  
Emergency Telephone # : (908) 757-0033 Facsimile Number : (908) 757-0905  
Trade Name : **ZnO XZ-11S3**  
Chemical Name/ Synonyms : Zinc Oxide (And) Triethoxy Caprylylsilane

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## SECTION 2: COMPOSTION / INFORMATION ON INGREDIENTS

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<u>Chemical Name</u>	<u>CAS #</u>	<u>EINECS #</u>
Zinc Oxide	1314-13-2	215-222-5
Triethoxy Carpylylsilane	2943-75-1	220-941-2

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## SECTION 3: HAZARD IDENTIFICATION

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No particular danger

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## SECTION 4: FIRST AID MEASURES

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### Effects and Symptoms:

Medical Conditions Aggravated by Exposure : Persons with respiratory or skin conditions may be at increased risk.  
Primary Route(s) of Entry : Inhalation or skin and eye contact.

### Emergency First Aid:

Eye Contact : Flush eyes with water for at least 15 min. See physician if irritation persists.  
Skin Contact : Flush skin with soap and water for at least 15 min.  
Inhalation : Remove to fresh air. If breathing is difficult give oxygen. See physician.  
Ingestion : None needed for small amounts. For large amounts, if conscious, give milk to drink, induce vomiting, and call physician.

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## SECTION 5: FIRE FIGHTING MEASURES

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Flash Point (Closed Cup) : N/A  
Flammable Limits LEL/UEL % : N/A  
Extinguishing Media : Water, Dry Chemical, Foam, CO<sub>2</sub>  
Special Fire Fighting Procedures : Self-contained breathing apparatus and protective clothing.  
Unusual Fire And Explosion Hazards : May burn or explode upon ignition if suspended in air as a dust.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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Personal Precautions : Avoid skin and eye contact  
Environmental Precautions : Prevent material from contaminating soil or entering sewerage and drainage systems.  
Spill response : Use appropriate NIOHS/MSHA approved respirator. Wear chemical gloves, goggles, and lab coat. Carefully contain spilled material. Deposit spilled material in appropriate waste container. Wash spill area with soap and water.

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## SECTION 7: HANDLING AND STORAGE

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**Handling** : Use with adequate ventilation. Avoid contact with eyes. Wash thoroughly after handling and before mealtimes. Follow all MSDS and label precautions even after container is emptied since it may contain residual material.  
**Storage** : Store containers closed in ambient location.

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## SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

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<b>Exposure Levels:</b>	OSHA	ACGIH	
<u>Component</u>		<u>OSHA's PEL</u>	<u>ACGIH's TLV</u>

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**ZnO-XZ-11S3**

ZnO	Nuisance Dust	15 mg/m <sup>3</sup>	10mg/m <sup>3</sup>
	Respirable Dust	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>

**Personal Protection:**

Eye Protection	:	Safety glasses with side shields or goggles
Skin Protection	:	Rubber gloves, wash at meals and end of shifts
Respiratory Protection	:	Use NIOSH/MSHA approved air purifying respirator as needed to control exposure.
Ventilation	:	Provide adequate general mechanical exhaust.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point (°C)	:	N/A	Percent Volatile By Vol. (%)	:	None
Freezing Point (°C)	:	N/A	Vapor Density (Air=1)	:	N/A
Melting Point (°C)	:	> 1000°C	Evaporation Rate (Buac=1)	:	N/A
Vapor Pressure (mm hg)	:	N/A	Solubility In Water	:	Insoluble
Appearance & Odor	:	White powder. Characteristic odor			

**SECTION 10: STABILITY AND REACTIVITY**

Stable	:	Yes
Hazardous Polymerization	:	Will not occur
Conditions To Avoid	:	Fire or excess heat
Incompatibility	:	Acids, alkalis and strong oxidizers
Hazardous Decomposition Products	:	None.

**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, LD <sub>50</sub> > 2 g/kg (rat)
Acute Skin Toxicity	:	Non-toxic, LD <sub>50</sub> > 2 g/kg (rat)
Mutagenicity	:	Negative (Ames test)

**SECTION 12: ECOLOGICAL INFORMATION**

No known effect on environment is expected under normal use.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Method of Disposal : Dispose of in accordance with all applicable federal, state, and local regulations. Material may be sent to an approved landfill or licensed treatment, storage, and disposal facility.

**SECTION 14: TRANSPORT INFORMATION**

Not regulated as hazardous material. No special precautions are required.

**SECTION 15: REGULATORY INFORMATION**

No information available

**SECTION 16: OTHER INFORMATION**

Date Prepared : December 18, 2000  
Date Revised : January 17, 2003

**Note:**

The statements made here 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.