

# MATERIAL SAFETY DATA SHEET

## SECTION 1: CHEMICAL PRODUCT IDENTIFICATION

Manufacturer/Distributor : Kobo Products, Inc.  
Address : 690 Montrose Avenue  
South Plainfield, NJ 07080  
Emergency Telephone # : (908) 757-0033  
Facsimile Number : (908) 757-0905  
Trade Name : **ZnO-USP1-I2, ZnO-USP1-I2P**  
Chemical Name/ Synonyms : Zinc Oxide (And) Isopropyl Titanium Triisostearate  
INCI Name : Zinc Oxide (And) Isopropyl Titanium Triisostearate

## SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS #	EINECS #
Zinc Oxide	1314-13-2	215-222-5
Isopropyl Titanium Triisostearate	61417-49-0	262-774-8

## SECTION 3: HAZARD IDENTIFICATION

No particular danger

## SECTION 4: FIRST AID MEASURES

### Effects and Symptoms:

Effects of Overexposure : May cause mechanical irritation to eyes.  
Medical Conditions Aggravated by Exposure : Persons with respiratory conditions may be at increased risk.  
Primary Route(s) of Entry : Inhalation.

### Emergency First Aid:

Eye Contact : Flush eyes with water for at least 15 min. get medical attention.  
Skin Contact : Wash exposed areas with soap and water.  
Inhalation : Remove to fresh air  
Ingestion : Do not induce vomiting. Get medical attention.

## SECTION 5: FIRE FIGHTING MEASURES

Flash Point (Closed Cup) : NA  
Flammable Limits LEL/UEL % : N/A  
Extinguishing Media : Water, fog, and foam, dry chemical or CO2  
Special Fire Fighting Procedures : None.  
Unusual Fire and Explosion Hazards : None

## SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions : Eye contact and excessive skin contact.  
Environmental Precautions: : N/A  
Spill response : Sweep material into a closeable container for disposal.

## SECTION 7: HANDLING AND STORAGE

Handling : Keep container closed when not in use. Avoid inhalation of dust and contact with eyes.  
Storage : Store in a dry cool area.

## SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

### Exposure Levels:

Component		OSHA's PEL	ACGIH's TLV
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:

ZnO-USP1-I2, ZnO-USP1-I2P

Eye Protection : Safety glasses with side shields or goggles  
 Skin Protection : Rubber or plastic film gloves. Wash hands after handling  
 Protective clothing : Rubber apron  
 Ventilation : Provide adequate local mechanical exhaust.

**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) : N/A	Evaporation Rate (Buac=1) : N/A
Vapor Pressure (mm hg) : N/A	Solubility In Water : Not soluble
Bulk Density (g/cbi.) : N/A	
Appearance & Odor : White powder, Odorless	
Specific Gravity (H <sub>2</sub> O=1) : N/A	

**SECTION 10: STABILITY AND REACTIVITY**

Stable : Yes  
 Hazardous Polymerization : May not occur  
 Conditions to Avoid : None.  
 Incompatibility : None.  
 Hazardous Decomposition Products : None.

**SECTION 11: TOXICOLOGICAL INFORMATION**

	<u>ZnO</u>	<u>Isopropyl Titanium Triisostearate</u>
Skin Irritation	: None when 0.5 mL/patch of 50 % water dispersion	Mild irritation
Primary Eye Irritation	: Slight stimilus, Draize Score= 6.67	Minimal irritation
Acute Oral Toxicity	: Non-toxic, LD <sub>50</sub> > 2 g/kg (rat)	Single dose LD <sub>50</sub> >2 g/kg (rat)
Acute Skin Toxicity	: Non-toxic, LD <sub>50</sub> > 2 g/kg (rat)	No data
Mutagenicity	: Negative (Ames test)	No data
Sensitization	: No data	None

**SECTION 12: ECOLOGICAL INFORMATION**

No Data

**SECTION 13: DISPOSAL CONSIDERATIONS**

Method of Disposal : Dispose of in accordance with federal, state and local regulations. Do not discharge into waterways or sewer system.

**SECTION 14: TRANSPORT INFORMATION**

DOT Classification : Not Regulated

**SECTION 15: REGULATORY INFORMATION**

No information is available.

**SECTION 16: OTHER INFORMATION**

Date Prepared : January 30, 2004

**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.