

# 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 : **MICA S-I2**  
Chemical Name/ Synonyms : Mica (and) Tris(Isooctadecanoato-O)(2-Propanolato)Titanium  
INCI Name : Mica (and) Isopropyl Titanium Triisostearate

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## SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

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Chemical Name	CAS #	EINECS #
Mica	12001-26-2	310-127-6
Tris(Isooctadecanoato-O)(2-Propanolato)Titanium	61417-49-0	262-774-8

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## SECTION 3: HAZARD IDENTIFICATION

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**Physical State and Appearance:** Solid. (Fine white powder, waxy odor)

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

**Routes of Entry:** Eye contact. Inhalation. Ingestion (not anticipated).

### 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 an intended route of exposure. May be hazardous in case of ingestion. Symptoms include gastrointestinal tract upset and diarrhea.

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

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## SECTION 4: FIRST AID MEASURES

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**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:** Do not ingest. If this material is swallowed, call a physician immediately. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

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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**

- 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.

**SECTION 7: HANDLING AND STORAGE**

**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.

**SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION**

<b>Exposure Levels:</b> <u>Component</u>	OSHA		ACGIH	
	<u>TWA</u>	<u>PEL</u>	<u>TWA</u>	<u>TLV</u>
Mica		3 mg/m <sup>3</sup>		3 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
Specific Gravity (H <sub>2</sub> O=1) : Greater than 1	Appearance & Odor : Off-white to satin powder. No 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 : Mica particles

**SECTION 11: TOXICOLOGICAL INFORMATION**

	<u>Mica</u>	<u>Isopropyl titanium triisostearate</u>
Skin Irritation	: No data	0.4 (Draize)
Eye Irritation	: No data	11.2 (modified Kay and Calandra) (rabbit)
Oral Toxicity (rat)	: LD <sub>50</sub> > 15,000 mg/kg	LD <sub>50</sub> > 2,000 mg/kg
Sensitization	: none	none

**SECTION 12: ECOLOGICAL INFORMATION**

Not available

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**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**

**DOT Classification** Not regulated.

**SECTION 15: REGULATORY INFORMATION**

AUSTRALIA ACOIN : Mica is on the list  
 CANADIAN WHM : Non-hazardous product  
 CANADIAN DOMESTIC SUBSTANCES LIST: As a naturally occurring substance mica is on the list  
 JAPAN MITI INDEX : Mica is not on the list  
 U.S. CALIFORNIA PROPOSITION 65: Mica is not on the list  
 U.S. CERCLA : 40 CFR Part 302. Table 302.4  
 U.S. EPA TCLP : 40 CFR Part 261-24, appendix II--Table 1. No noticeable amount of toxic substances leaches out.  
 U.S. RCRA : Mica in not classified as a hazardous waste under Section 3001 of RCRA, and under regulation 40 CFR Part 261.4 (b) (7)

**SECTION 16: OTHER INFORMATION**

Date Prepared : October 4, 1999  
 Date Revised : January 16, 2003  
 Last Revision : November 4, 2003  
 by Eric Smith

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

Health	1
Fire Hazard	0
Reactivity	0
Personal Protection	E

**EU Phrases** S22/25- Do not breathe dust, avoid contact with eyes.

**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.