

# 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 : **BYO-11S2**  
Chemical Name/ Synonyms : Iron Hydroxide Oxide (And) Triethoxy Caprylylsilane  
INCI Name : Iron Oxide (And) Triethoxy Caprylylsilane

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## SECTION 2: COMPOSTION / INFORMATION ON INGREDIENTS

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Chemical Name	CAS #	EINECS #
Iron Hydroxide Oxide	20344-49-4	243-746-4
Triethoxy Caprylylsilane	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:

Effects of Overexposure to Dust : 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 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 water for at least 15 min.  
Inhalation : Remove to fresh air. See physician.  
Ingestion : If conscious, give milk to drink and see physician.

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## SECTION 5: FIRE FIGHTING MEASURES

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Flash Point (Closed Cup) : Non flammable, non-combustible.  
Flammable Limits LEL/UEL % : N/A  
Extinguishing Media : Water, Dry Chemical, Foam, CO<sub>2</sub>  
Special Fire Fighting Procedures : Wear self contained breathing apparatus when fighting fires.  
Unusual Fire And Explosion Hazards : Prevent the accumulation of air borne dust/dust cloud. May become highly charged with electricity.

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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 : Avoid breathing dust. Use appropriate NIOHS/MSHA approved respirator. Wear chemical gloves, goggles, and lab coat. Carefully contain spilled material without creating a dust inhalation hazard. 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 :**

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**BYO-11S2**

Good industrial hygienic practice requires that employee exposure be maintained to below the recommended TLV. This is preferably achieved through the provision of adequate ventilation where necessary. When dust cannot be controlled in this way, personal respiratory protection should be employed. Follow all MSDS and label precautions even after container is emptied since it may contain residual material.

**Storage :**

Store containers closed in a cool dry place. Avoid storage in areas above 40 degrees Centigrade. Avoid direct sunlight, heat, sparks, and open flames.

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

**Exposure Levels:**

<u>Component</u>	OSHA		ACGIH	
	<u>TWA</u>	<u>PEL</u>	<u>TWA</u>	<u>TLV</u>
Iron Oxide		15mg/m3		10mg/m3

**Personal Protection:**

- Eye Protection : Safety glasses or goggles.
- Skin Protection : Rubber or neoprene gloves.
- Respiratory Protection : Appropriate NIOSH/MSHA approved respirator when PEL or TLV is exceeded.
- Ventilation : Provide adequate general mechanical and local exhaust.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point (°C) :	N/A	Percent Volatile By Vol. (%) :	<1.0
Freezing Point (°C) :	N/A	Vapor Density (Air=1) :	N/A
Melting Point (°C) :	>1000°C	Evaporation Rate (Buac=1) :	0
Vapor Pressure (mm hg) :	N/A	Solubility In Water :	Insoluble
Specific Gravity (g/cc.) :	N/A	Appearance & Odor :	Fine Yellow Powder, Characteristic odor.

**SECTION 10: STABILITY AND REACTIVITY**

- Stable : Yes
- Hazardous Polymerization : Will not occur
- Conditions To Avoid : Fire or excessive heat.
- Incompatibility : Strong acids, bases, oxidizers
- Hazardous Decomposition Products : SiO<sub>2</sub>, CO, CO<sub>2</sub>

**SECTION 11: TOXICOLOGICAL INFORMATION**

- Iron Oxide
- Skin Irritation (rabbit) : No data
- Primary Eye Irritation (rabbit) : Mild-irritant  
Average Draize score = 0.00
- Acute Oral Toxicity (rat) : Non-toxic, LD<sub>50</sub> > 15 g/kg (rat)
- Sensitization : Non-toxic

**SECTION 12: ECOLOGICAL INFORMATION**

No Data

**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**

Classification: Non-hazardous

**SECTION 15: REGULATORY INFORMATION**

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No information is available.

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**SECTION 16: OTHER INFORMATION**

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Date Prepared : July 7, 1998  
Last Revised : January 10, 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.