

# 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 : **KTZ® BRONZE DOR-11S2**  
Chemical Name/ Synonyms: Mica (And) Iron Oxide (C.I. 77491) (And) Triethoxycaprylylsilane

## SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS #	EINECS #
Mica	12001-26-2	310-127-6
Iron Oxide	1309-37-1	215-168-2
Triethoxycaprylylsilane	2943-75-1	220-941-2

## 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 maybe at increased risk.  
Primary Route(s) of Entry: Inhalation, Ingestion and eyes.

### 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 water and call physician. Do not induce vomiting.

## SECTION 5: FIRE FIGHTING MEASURES

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: Can burn in fire, releasing toxic vapors. Vapors are heavier than air and can travel along ground to remote ignition sources.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions : Eye contact and inhalation.  
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

Exposure Levels: Component	OSHA		ACGIH	
	TWA	PEL	TWA	TLV
Iron Oxide	15 mg/m <sup>3</sup>		10 mg/m <sup>3</sup>	
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. (%)	: N/A
Freezing Point (°C)	: N/A	Vapor Density (Air=1)	: N/A
Melting Point (°C)	: > 1000	Evaporation Rate (Buac=1)	: N/A
Vapor Pressure (mm hg)	: N/A	Solubility In Water	: insoluble
Bulk Density (g/cbi.)	: 6.5	Appearance & Odor	: Free Flowing Bronze Powder

**SECTION 10: STABILITY AND REACTIVITY**

Stable: Yes  
 Hazardous Polymerization: Will not occur  
 Conditions To Avoid: Open flames and sparks, extreme heat, oxidizing materials  
 Incompatibility: Oxidizing materials and strong caustic materials can cause a reaction.  
 Hazardous Decomposition Products: Incomplete combustion can form CO, CO2, and dense smoke

**SECTION 11: TOXICOLOGICAL INFORMATION**

	<u>Mica</u>	<u>Iron Oxide</u>
Skin Irritation	: No data	No Data
Eye Irritation	: No data	Mild-Irritant (rabbit); Average Draize score = 0.00
Acute Oral Toxicity	: LD <sub>50</sub> > 15,000 mg/kg (rat)	Non-toxic, LD <sub>50</sub> > 15 g/kg (rat)
Inhalation LC <sub>50</sub>	: No data	No data

**Chronic Effects on Humans** **CARCINOGENIC EFFECTS:** Classified None by NIOSH [Iron Oxides]. Classified A4 (not classifiable for human or animal) by AGIH. 3 (not classifiable for human) by IARC [Iron Oxides].  
**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 skin, 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**

This product has not been evaluated for its ecotoxicity. However, the biodegradation of this product under aerobic conditions is expected to be very poor and there is no evidence to suggest they create ecological problems when released into the environment. Since this product is insoluble, it is believed to have minimal bioaccumulation and bioavailability characteristics.

**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  
 TDG Classification : Not regulated  
 IMO/IMDG Classification : Not regulated  
 ICAO/IATA Classification : Not regulated

**SECTION 15: REGULATORY INFORMATION**

This product or its components are on the following inventories : European Inventory of Existing Commercial Chemicals  
 Australia Inventory of Chemical Substances  
 Japan Inventory of Existing & New Chemical Substances  
 Canada DSL Inventory

**SECTION 16: OTHER INFORMATION**

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

Health	1
Fire Hazard	0
Reactivity	0
Personal Protection	E

Date Prepared : August 5, 2002  
 Date Revised : October 10, 2002  
 Date Revised : March 26, 2009

**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.