MATERIAL SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT IDENTIFICATION

Manufacturer/Distributor:	Kobo Products, Inc.
Address:	3474 South Clinton Avenue South Plainfield, NJ 07080, USA
Emergency Telephone #:	(908) 757-0033
Facsimile Number:	(908) 757-0905
Trade Name:	**BBO-I2**
INCI:	Iron Oxides (C.I. 77499) (And) Isopropyl Titanium Triisostearate
Chemical Name:	Ferrous Oxide (And) Tris(Isooctadecanoato-O)(2-Propanolato)Titanium
Material Uses:	Colorant-Component in personal care products
Chemical Family:	Color additive

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS #	EINECS #
Iron Oxides (C.I. 77499)	12227-89-3	235-442-5
Isopropyl Titanium Triisostearate	61417-49-0	262-774-8

SECTION 3: HAZARD IDENTIFICATION

Physical State and Appearance: Solid (black powder, characteristic odor)

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

Routes of Entry: Eye contact and 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.

Potential Chronic Health Effects

Additional information See Toxicological information (section 11)

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

SECTION 4: FIRST AID MEASURES

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.

SECTION 5: FIRE FIGHTING MEASURES

Flammability: N/A
Fire Fighting Media and Instructions: In case of fire, use water spray (fog), foam, dry chemical, or CO2
Protective Clothing (fire): Wear self-contained breathing apparatus and full protective clothing.
Conditions to Avoid: Sparks, ignition sources and generating dust. Airborne dust can be an explosion hazard.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Small Spill and Leak: Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional regulatory requirements.

Large Spill and Leak: Use appropriate tools to put the spill material into a labeled waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional regulatory requirements. Check TLV in section 8 of MSDS and with local authorities.

Spill Kit information: No specific spill kit required for this product.

SECTION 7: HANDLING AND STORAGE

Handling: Avoid generating dust. Avoid breathing dust. Use only with adequate ventilation. Avoid prolonged or repeated contact with skin. Avoid contact with eyes. Keep container closed. Wash thoroughly after handling.

Storage: Keep container dry. Keep containers sealed until ready for use.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Levels:

	OSHA		ACGIH	
Component	TWA	PEL	TWA	TLV
Iron Oxides	15 mg/m^3		10 mg/m^3	

Personal Protection:

Eye: Safety glasses with side shields or goggles

Body: Lab coat

Respiratory: Use NIOSH/MSHA approved air-purifying respirator as needed to control exposure.

Hand: Recommended: Gloves

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.):	N/A	Appearance & Odor:	Black powder, characteristic odor

SECTION 10: STABILITY AND REACTIVITY

Stable: Stable

Hazardous Polymerization: None

Incompatibility: Strong oxidizing agents and strong acids.

Hazardous Decomposition Products: Flammable solids, emits toxic fumes under fire conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

	Iron Oxides
Skin Irritation:	No data
Eye Irritation:	Mild-Irritant (rabbit); Average Draize score = 0.00
Acute Oral Toxicity:	Non-toxic, LD_{50} > 15 g/kg (rat)

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

Toxicity of the Products of Biodegradation: N/A

SECTION 13: DISPOSAL CONSIDERATIONS

Treatment: Dispose of according to all federal, state and local regulations.

SECTION 14: TRANSPORT INFORMATION

DOT Classification:
Proper Shipping Name: Self-Heating Solid, Inorganic, N.O.S. (contains Black Iron Oxide)
Hazard Class/Division: 4.2
Identification Number: UN3190
Packaging Group: III

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	1
Reactivity	0
Personal Protection	F

Date Prepared: July 7, 1998
Date Revised: March 19, 2003
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Date Revised: April 19, 2004
Date Revised: July 2, 2007
By Eric Smith
Date Revised: October 2, 2008
By Neringa Kontrimiene

Note:
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