

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-11S2**
INCI Name : Iron Oxides (C.I. 77499) (And) Triethoxycaprylylsilane

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS #</u>	<u>EINECS #</u>
Iron Oxides (C.I. 77499)	12227-89-3	235-442-5
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 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.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point (Closed Cup) : N/A
Flammable Limits LEL/UEL % : N/A
Extinguishing Media : Water, Dry Chemical, Foam, CO₂
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.

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 : 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.

SECTION 7: HANDLING AND STORAGE

Handling : 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.

BBO-11S2**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 Oxides	15 mg/m ³		10 mg/m ³	

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 black 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
Hazardous Decomposition Products	: SiO ₂ , CO, CO ₂

SECTION 11: TOXICOLOGICAL INFORMATION

	<u>Iron Oxides</u>
Skin Irritation	: No data
Eye Irritation (rabbit)	: Mild-Irritant; Average Draize score = 0.00
Acute Oral Toxicity (rat)	: Non-toxic, LD ₅₀ > 15 g/kg
Inhalation LC ₅₀	: LC ₅₀ >5,000 g/kg

Chronic Effects on Humans

CARCINOGENIC EFFECTS: Classified None by NIOSH [Iron Oxides]. Classified A4 (not classifiable for human or animal) by ACGIH, 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

No information is available.

BBO-11S2**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:**

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	0
Reactivity	0
Personal Protection	C

Date Prepared : July 7, 1998
 Date Revised : January 10, 2003
 By Eric Smith
 Date Revised : July 6, 2009
 By Neringa Kontrimiene

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.