

# MATERIAL SAFETY DATA SHEET

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## SECTION 1: CHEMICAL PRODUCT IDENTIFICATION

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Manufacturer/Distributor : Kobo Products, Inc.  
Address : 3474 South Clinton Avenue  
South Plainfield, NJ 07080, USA  
Emergency Telephone # : CHEMTREC 1(800)-424-9300  
Facsimile Number : (908) 757-0905  
Trade Name : **BLACK NF**  
INCI Name : Iron Oxides (C.I. 77499)  
Chemical Name: Ferrous Oxide  
Material Uses : Colorant-Component in personal care products

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## SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

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

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## SECTION 3: HAZARD IDENTIFICATION

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### Emergency Overview:

**Warning!** Exposure to temperatures greater than 130°F may cause this product to become unstable and auto-oxidize generating sufficient heat to cause combustion.

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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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**Flammability:** Self-heating in large quantities; may catch fire

**Fire Fighting Media and Instructions:** In case of fire, use water spray (fog), foam, dry chemical, or CO<sub>2</sub>

**Protective Clothing (fire):** Wear self-contained breathing apparatus and full protective clothing.

**Conditions to Avoid:** Fire or excessive heat may produce hazardous decomposition products. Exposure to temperatures above 130°F may cause this product to become unstable and to auto-oxidize generating sufficient heat to cause combustion and cause product container to ignite.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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**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.

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## SECTION 7: HANDLING AND STORAGE

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**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 and store away from combustibles or flammables. Avoid exposure to temperatures above 130°F. Keep containers sealed until ready for use.

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

Exposure Levels: Component	OSHA		ACGIH	
	TWA	PEL	TWA	TLV
Iron Oxides	15 mg/m <sup>3</sup>		10 mg/m <sup>3</sup>	

**Personal Protection:**

<b>Eye:</b>	Safety glasses with side shields or goggles
<b>Body:</b>	Lab coat
<b>Respiratory:</b>	Use NIOSH/MSHA approved air-purifying respirator as needed to control exposure.
<b>Hand:</b>	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)	: > 1500	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**

<b>Stable:</b>	Stable
<b>Hazardous Polymerization:</b>	Will not occur
<b>Conditions to Avoid:</b>	Reacts with carbon monoxide causing explosion hazard.
<b>Incompatibility:</b>	Strong oxidizing agents and strong acids Strong acids and strong oxidizing agents and strong caustic materials can cause a reaction.
<b>Hazardous Decomposition Products:</b>	Flammable solids, emits toxic fumes under fire conditions.

**SECTION 11: TOXICOLOGICAL INFORMATION**

	<u>Iron Oxide</u>
Skin Irritation:	No data
Eye Irritation:	Mild-Irritant (rabbit); Average Draize score = 0.00
Acute Oral Toxicity:	Non-toxic, LD <sub>50</sub> > 15 g/kg (rat)
Inhalation LC <sub>50</sub> :	No data
<b>Chronic Effects on Humans</b>	<b>CARCINOGENIC EFFECTS:</b> 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]. <b>MUTAGENIC EFFECTS:</b> Not available. <b>TERATOGENIC EFFECTS:</b> Not available. <b>DEVELOPMENTAL TOXICITY:</b> Not available. Repeated or prolonged exposure to the substance at concentrations above exposure limits may cause respiratory damage. Target Organs: eyes, lungs, skin.
<b>Acute Effects on Humans</b>	May cause skin, eye, and respiratory irritation.
<b>Sensitization</b>	Repeated or prolonged exposure to the substance at concentrations above the exposure limits may cause respiratory tract and lung sensitization.
<b>Carcinogenic Effects</b>	This material is not known to cause cancer in animals or humans.

**SECTION 12: ECOLOGICAL INFORMATION**

<b>Toxicity of the Products of Biodegradation:</b>	N/A
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**SECTION 13: DISPOSAL CONSIDERATIONS**

<b>Treatment:</b>	Dispose of according to all federal, state and local regulations.
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**SECTION 14: TRANSPORT INFORMATION**

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**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

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**SECTION 15: REGULATORY INFORMATION**

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**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

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**SECTION 16: OTHER INFORMATION**

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**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: November 13, 2006

By Eric Smith

Date Revised: September 25, 2008

By Neringa Kontrimiene

Date Revised: November 18, 2008

By Neringa Kontrimiene

**Note:**

The statements made here are based upon technical data that Kobo Products Inc. believes to be reliable, 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.