MATERIAL SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT IDENTIFICATION

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 : **Barium Sulfate**
Chemical Name/ Synonyms : Barium Sulfate
INCI Name : Barium Sulfate

SECTION 2: COMPOSTION / INFORMATION ON INGREDIENTS

Chemical Name	CAS #	EINECS #
Barium Sulfate	17852-98-1	231-784-4

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 may be at increased risk.
Primary Route(s) of Entry : Inhalation, 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.
Inhalation : Remove to fresh air. If breathing is difficult give oxygen. See physician.
Ingestion : For any amount, 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_2
Special Fire Fighting Procedures : Fire fighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes.
Unusual Fire And Explosion Hazards : Material is not combustible

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions : Eye contact and excessive skin contact.
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.

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 away for a11 possible combustion.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Levels:	OSHA PEL	ACGIH TLV	
	10 mg/m^3	10 mg/m^3	Total dust
	5 mg/m^3	5 mg/m^3	Respirabele dust

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. (%)	: 0
Freezing Point (°C)	: N/A	Vapor Density (Air=1)	: N/A
Melting Point (°C)	: >1000	Evaporation Rate (Buac=1)	: 0
Vapor Pressure (mm hg)	: N/A	Solubility In Water	: $<10^{-2}$ g/l @20'C
Bulk Density (kg/m3)	: N/A	Appearance & Odor	: white powder, Odorless
Specific Gravity (H_2O)	: 4.4		

SECTION 10: STABILITY AND REACTIVITY

Stable : Yes
Hazardous Polymerization : Will not occur
Conditions To Avoid : None
Incompatibility : None
Hazardous Decomposition Products : None

SECTION 11: TOXICOLOGICAL INFORMATION

Skin Irritation : Repeated or prolonged exposure may cause dermatitis (inflammation of the skin)
Primary Eye Irritation : Repeated or prolonged exposure may cause conjunctivitis (inflammation of the mucous membranes surrounding the eye)
Acute Oral Toxicity : Not established

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. When discarded in its purchased form, this material meets the criteria of reactivity and should be managed as a hazardous waste (EPA Hazardous Waste Number D003)

SECTION 14: TRANSPORT INFORMATION

Classification: Non Hazardous

SECTION 15: REGULATORY INFORMATION

Label Name : **Barium Sulfate**

SECTION 16: OTHER INFORMATION

Date Prepared : April 18, 2002

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.