

# 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 # : (908) 757-0033  
Facsimile Number : (908) 757-0905  
Trade Name : **MSS-500/H, MSS-500/3H, MSS-500/3H4**  
Chemical Name/ Synonyms : Silicon Dioxide  
INCI Name : Silica

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## SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

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Chemical Name	CAS #	EINECS #
Silicon Dioxide	7631-86-9	231-545-4

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## SECTION 3: HAZARD IDENTIFICATION

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### 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 : Skin and eye contact.

### Chronic (Cancer Info)

: Not listed as a carcinogen by IARC, NTP, Z List or OSHA.

### Target Organs

: Lung.

### Medical Conditions Aggravated

: Individuals with pre-existing respiratory conditions such as asthma or skin conditions such as dermatitis may be at greater risk from exposure to material.

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## SECTION 4: FIRST AID MEASURES

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### 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 : None needed for small amounts. For large amounts, if conscious, give water and call physician. Do not induce vomiting.

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## SECTION 5: FIRE FIGHTING MEASURES

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Flash Point (Closed Cup) : N/A  
Flammable Limits LEL/UEL % : N/A  
Auto Ignition Temp : Non-flammable  
Extinguishing Media : N/A  
Special Fire Fighting Procedures : N/A  
Unusual Fire and Explosion Hazards : Prevent the accumulation of air borne dust/dust cloud. May become highly charged with electricity.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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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.

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## SECTION 7: HANDLING AND STORAGE

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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 and dry location.

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

TLV (US) = 10 mg/m<sup>3</sup> total dust for particles not otherwise classified.

PEL (US) = 6 mg/m<sup>3</sup> for nuisance dust.

MAK TRGS 900 (Germany) = 4 mg/m<sup>3</sup> inhalable dust.

OES (UK) = 6 mg/m<sup>3</sup> total inhalable, 2.4 mg/m<sup>3</sup> respirable dust.

TLV (Australia) = 10 mg/m<sup>3</sup> total dust containing no asbestos and < 1% crystalline silica.

**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)	: >2000	Percent Volatile By Vol. (%)	: N/A
Freezing Point (°C)	: N/A	Vapor Density (Air=1)	: N/A
Melting Point (°C)	: >1700	Evaporation Rate (Buac=1)	: N/A
Vapor Pressure (mm hg)	: N/A	Solubility In Water	: 120ppm @ 25°C
Bulk Density (Kg/M3)	: N/A	Appearance & Odor	: Spherical white powder, odorless

**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, CO<sub>2</sub>, and dense smoke

**SECTION 11: TOXICOLOGICAL INFORMATION**

Amorphous Silica  
 Skin Irritation : Primary Irritation Index: 0.0. Non-irritant.  
 Primary Eye Irritation : No-irritant. Avg. Draize Scores: 0.0 after 48 hours.  
 Acute Oral Toxicity : Non-toxic, LD<sub>50</sub> > 5 g/kg (rat)  
 Sensitization : No data

**SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicity : Not tested.  
 Mobility : Not soluble in water, not mobile in soil.  
 Persistence/Degradability : Not Applicable  
 Bio-Accumulation : Not Applicable  
 WGK Water Hazard Class : nwg (not water hazardous).

**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 Regulation : 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

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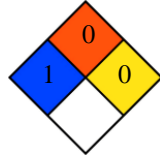
**SECTION 16: OTHER INFORMATION**

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

Health	1
Fire Hazard	0
Reactivity	0
Personal Protection	E

**Classification by the National Fire Association** [Ratings Key: 4= Extreme danger, 0= No hazard]



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- Date Revised : April 19, 2004
- Date Revised : April 10, 2006
- Date Revised : September 8, 2006
- Date Revised : May 26, 2009

**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.