

# MATERIAL SAFETY DATA SHEET

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## SECTION 1: CHEMICAL PRODUCT IDENTIFICATION

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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 : **PF-5 MSS-500/3N**  
Chemical Name/ Synonyms : Silica (and) Perfluoroalkylethyl Phosphate  
INCI Name : Silica (and) C9-15 Fluoroalcohol Phosphates

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## SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

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Chemical Name	CAS #	EINECS #
Silica	112945-52-5, 7631-86-9	231-545-4
Perfluoroalkylethyl Phosphate	---	---

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## SECTION 3: HAZARD IDENTIFICATION

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No particular danger

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## SECTION 4: FIRST AID MEASURES

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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.

### 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  
Extinguishing Media : Water, Dry Chemical, Foam, CO<sub>2</sub>  
Special Fire Fighting Procedures : Self-contained breathing apparatus and protective clothing.  
Unusual Fire And Explosion Hazards : Prevent the accumulation of air borne dust/dust cloud. The potential of a dust cloud explosion exists. 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 location away for al possible combustion.

**PF-5 MSS-500/3N**

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

<b>Exposure Levels:</b>	OSHA		ACGIH	
	<u>TWA</u>	<u>PEL</u>	<u>TWA</u>	<u>TLV</u>
Silica	6 mg/m <sup>3</sup>		10mg/m <sup>3</sup>	

**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
Specific Gravity (H2O=1) : 2.0 - 2.8	

**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**

	<u>Amorphous Silica</u>
Skin Irritation	: None
Primary Eye Irritation	: Minimal irritation
Acute Oral Toxicity	: Non-toxic, LD <sub>50</sub> > 10 g/kg (rat)
Sensitization	: No data

**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. 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**

- EPA RCRA : No information was found.
- FDA : Silica and Silicon dioxide are cleared under 21 CFR for food-related uses.
- USA TSCA : February 1996 Inventory Tape, exempt from Update Rule.

**SECTION 16: OTHER INFORMATION**

- Date Prepared : Sept. 30, 1998
- Date Revised : April 1, 2004

**PF-5 MSS-500/3N**

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**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.