

MATERIAL SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT IDENTIFICATION

Manufacturer/Distributor : Kobo Products, Inc.
Address : 3474 South Clinton Avenue
South Plainfield, NJ 07080
Emergency Telephone # : (908) 757-0033
Facsimile Number : (908) 757-0905
Trade Name : **KFS340VM**
INCI : Titanium Dioxide (And) Caprylyl Methicone (And) Cyclopentasiloxane (And) Diethylhexyl Carbonate (And) Alumina (And) Polyhydroxystearic Acid (And) Triethoxysilylethyl Polydimethylsiloxyethyl Hexyl Dimethicone (And) Lauryl PEG-9 Polydimethylsiloxyethyl Dimethicone
Material Uses : Pigment, component in personal care products.
Chemical Family : Inorganic Pigment

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS #</u>	<u>EINECS #</u>	<u>Symbol(s)</u>	<u>EU Phrases</u>
Titanium Dioxide	13463-67-7	236-675-5		S22/25/36/37
Caprylyl Methicone	17955-88-3	241-881-3		
Cyclopentasiloxane	541-02-6	208-764-9	520778	
Diethylhexyl Carbonate	14858-73-2	238-925-9		
Alumina	1333-84-2		100457	
Polyhydroxystearic Acid	27924-99-8			
Triethoxysilylethyl Polydimethylsiloxyethyl Hexyl Dimethicone				
Lauryl PEG-9 Polydimethylsiloxyethyl Dimethicone				

SECTION 3: HAZARD IDENTIFICATION

Physical State and Appearance: Liquid. (White, viscous liquid)

Emergency Overview: May cause eye and skin irritation.

Routes of Entry: Eye contact. Inhalation. Ingestion (not anticipated).

Potential Acute Health Effects

Eyes: May cause eye irritation. Symptoms include itching and redness after contact.

Skin: May cause mild skin irritation. Symptoms include itching and redness after contact.

Inhalation: Negligible unless heated to produce vapors. Vapors or finely misted material may irritate the mucous membranes and cause irritation, dizziness, or nausea.

Ingestion: Not an intended route of exposure. May be hazardous in case of ingestion. Symptoms include gastrointestinal tract upset and diarrhea.

Potential Chronic Health Effects

Additional information See Toxicological information (section 11)

Medical Conditions Overexposure: Aggravated by Repeated or prolonged inhalation of any dust particulate may aggravate respiratory medical conditions.

SECTION 4: FIRST AID MEASURES

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: Remove individual to fresh air. Seek medical attention if breathing becomes difficult or symptoms persist.

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.

SECTION 5: FIRE FIGHTING MEASURES

Flammability: Non-flammable

Fire Fighting Media And Instructions: In case of fire, use water spray (fog), foam, dry chemical, or CO2

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

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.

SECTION 7: HANDLING AND STORAGE

Handling : 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. Keep containers sealed until ready for use. Empty containers may contain residue and be dangerous.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Levels:	OSHA	ACGIH
<u>Component</u>	<u>TWA</u>	<u>TWA</u> <u>TLV</u>
TiO2	15 mg/m ³	10 mg/m ³

Personal Protection:

Eye: Safety glasses with side shields or goggles

Body: Lab coat

Respiratory: Use NIOSH/MSHA approved air-purifying respirator as needed to control exposure.

Hand: 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)	: > 1000	Evaporation Rate (Buac=1)	: N/A
Vapor Pressure (mm hg)	: N/A	Solubility In Water	: Insoluble
Bulk Density (g/cbi.)	: N/A	Appearance & Odor	: Viscous Liquid.

SECTION 10: STABILITY AND REACTIVITY

Stable:	Stable
Hazardous Polymerization:	None
Incompatibility:	Strong acids and strong oxidizing agents.
Hazardous Decomposition Products:	Incomplete combustion can produce carbon monoxide, carbon dioxide and nitrous dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

	<u>Titanium Dioxide*</u>
Skin Irritation	: Dermal LD ₅₀ > 10 g/kg (Rabbit)

Eye Irritation : No data

Acute Oral Toxicity : Non-toxic, LD₅₀ > 25 g/kg (rat)

Inhalation LC₅₀ : >6.82 mg/L (4 hour)

*: Trochimowicz. et. Al., J. Appl. Tox. 8, 383-385 (1998)

Chronic Effects on Humans **CARCINOGENIC EFFECTS:** Classified None. By NIOSH [Titanium Dioxide]. Classified A4 (not classifiable for human or animal.) by ACGIH, 3 (not classifiable for human.) by IARC [Titanium Dioxide]. Classified None.
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

Toxicity of the Products of Biodegradation: N/A

German Regulations:

Water pollutant class: nwg (own classification)

SECTION 13: DISPOSAL CONSIDERATIONS

EPA Waste Number Non-hazardous waste
Treatment Dispose of according to all federal, state and local regulations.

SECTION 14: TRANSPORT INFORMATION

DOT Classification Not regulated.
TDG Classification Not regulated.
IMO/IMDG Classification Not regulated.
ICAO/IATA Classification Not regulated.

SECTION 15: REGULATORY INFORMATION

U.S. Federal Regulations Clean Water Act (CWA) 307: No products were found.
 Clean Water Act (CWA) 311: No products were found.
 Clean Air Act (CAA) 112 accidental release prevention: No products were found.
 Clean Air Act (CAA) 112 regulated flammable substances: No products were found.
 Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

WHMIS (Canada) Not controlled under WHMIS (Canada)

International Regulations

Labeling according to EC Directives

Symbol(s) ---

R-Phrases ---

S-Phrases S22 Do not breathe dust
 S25 Avoid contact with eyes
 S36/37 Wear suitable protective clothing and gloves.

CEE Norms-Information on warning label.

Symbol : ---
 Risk Phrase : ---

Safety advice :
 Avoid unnecessary release to the environment. Refer to local and federal regulations if
 accidental released..

International List

Australia (NICNAS): TITANIUM DIOXIDE
 JAPAN (MITI): TITANIUM DIOXIDE
 Korea (TCCL): TITANIUM DIOXIDE
 Philippines (RA6969): TITANIUM DIOXIDE

State Regulations

Pennsylvania RTK: TITANIUM DIOXIDE: (generic environmental hazard)
 Massachusetts RTK: TITANIUM DIOXIDE
 New Jersey: TITANIUM DIOXIDE

SECTION 16: OTHER INFORMATION

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

Health	1
Fire Hazard	1
Reactivity	0
Personal Protection	E

EU S phrases : S22/25/36/37- Do not breathe dust, avoid contact with eyes, wear suitable protective clothing and gloves.

Date Prepared : May 5, 2005
 Prepared By : Yun Shao

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.