

MATERIAL SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT IDENTIFICATION

Manufacturer/Distributor : Kobo Products, Inc.
Address : 690 Montrose Avenue
South Plainfield, NJ 07080
Emergency Telephone # : (908) 757-0033
Facsimile Number : (908) 757-0905
Trade Name : **KTZ® JAIPUR SUNSET**
INCI : Titanium Dioxide (And) Mica (And) Iron Oxide (C.I. 77491)
Chemical Name: : Mica (and) Titanium Dioxide (and) Ferrous Oxide
Material Uses : Pigment
Chemical Family : Inorganic Pigment

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>CAS #</u>	<u>EINECS #</u>	<u>EU Phrases</u>
Mica	12001-26-2	310-127-6	S22/25/36
Titanium Dioxide	13463-67-7	236-675-5	
Iron Oxide	1309-37-1	215-168-2	

SECTION 3: HAZARD IDENTIFICATION

Physical State and Appearance: Solid. (odorless, yellow-violet pearlescent powder)

Emergency Overview: May cause respiratory tract, 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: May cause respiratory tract irritation. Symptoms include: coughing, wheezing or shortness of breath when inhaled.

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: 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.

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** : 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. Keep containers sealed until ready for use.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

<u>Component</u>	<u>OSHA</u>		<u>ACGIH</u>	
	<u>TWA</u>	<u>PEL</u>	<u>TWA</u>	<u>TLV</u>
TiO2	15 mg/m ³		10 mg/m ³	
Mica	3 mg/m ³		3 mg/m ³	
Iron Oxide	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	: yellow-violet powder. No Odor

SECTION 10: STABILITY AND REACTIVITY

- Stable:** Stable
- Hazardous Polymerization:** None
- Incompatibility:** Strong oxidizing agents and strong acids.
- Hazardous Decomposition Products:** Nature of decomposition products is not known.

SECTION 11: TOXICOLOGICAL INFORMATION

	<u>Titanium Dioxide*</u>	<u>Iron Oxide</u>
Skin Irritation	: Dermal LD ₅₀ > 10 g/kg (Rabbit)	No Data (Rabbit)
Eye Irritation	: No data	Mild-Irritant (rabbit) Average Draize score = 0.00
Acute Oral Toxicity	: Non-toxic, LD ₅₀ > 25 g/kg (rat)	Non-toxic, LD ₅₀ > 15 g/kg (rat)
Inhalation LC ₅₀	: >6.82 mg/L (4 hour)	LD ₅₀ >5,000 g/kg

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

	<u>Mica</u>
Skin Irritation	No data
Eye Irritation	No data
Oral Toxicity (rat)	LD ₅₀ > 15,000 mg/kg
Sensitization	Non-toxic

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. By NIOSH [Iron Oxide]. Classified A4 (not classifiable for human or animal.) by AGIH, 3 (not classifiable for human.) by IARC [Iron Oxide].
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

DSCL (EEC) S22/25/36- Do not breathe dust, avoid contact with eyes and wear suitable protective clothing.

International List

Australia (NICNAS): MICA; TITANIUM DIOXIDE; IRON OXIDE

JAPAN (MITI): MICA; TITANIUM DIOXIDE; IRON OXIDE

Korea (TCCL): MICA; TITANIUM DIOXIDE; IRON OXIDE

Philippines (RA6969): MICA; TITANIUM DIOXIDE; IRON OXIDE

State Regulations

Pennsylvania RTK: TITANIUM DIOXIDE: (generic environmental hazard); IRON OXIDE: (generic environmental hazard)

Massachusetts RTK: MICA; TITANIUM DIOXIDE; IRON OXIDE

New Jersey: MICA; TITANIUM DIOXIDE; IRON OXIDE

SECTION 16: OTHER INFORMATION

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

Health	1
Fire Hazard	0
Reactivity	0
Personal Protection	E

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

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 By Nancy O'Shea

Note:
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