

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 : **KTZ® SUNBURST GOLD**
Chemical Name/ Synonyms: Mica (and) Titanium Dioxide (And) Iron Oxide

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS #</u>	<u>EINECS #</u>
Mica	12001-26-2	310-127-6
Titanium Dioxide	13463-67-7	236-675-5
Iron Oxide	1309-37-1	215-168-2

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 maybe at increased risk.
Primary Route(s) of Entry:	Inhalation, Ingestion and eyes.

Emergency First Aid:

Eye Contact:	Flush eyes with water for at least 15 min. See physician if irritation persists.
Skin Contact:	Flush skin with soap and water for at least 15 min.
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.

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	: Self-contained breathing apparatus and protective clothing.
Unusual Fire And Explosion Hazards:	Can burn in fire, releasing toxic vapors. Vapors are heavier than air and can travel along ground to remote ignition sources.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions	: Eye contact and inhalation.
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. Wash spill area with soap and water.

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.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Levels: <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 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. (%)	: 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	: N/A
Bulk Density (g/cbi.)	: N/A	Appearance & Odor	: Free Flowing Gold Powder

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, CO₂, and dense smoke

SECTION 11: TOXICOLOGICAL INFORMATION

	<u>Titanium Dioxide*</u>	<u>Iron Oxide</u>
Skin Irritation	: Dermal LD ₅₀ > 10 g/kg (Rabbit)	No Data
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. Classifiable Group 2B (Possibly carcinogenic to humans) 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.

