

MATERIAL SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT IDENTIFICATION

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 : **TNP40VTTS**
Chemical Name/ Synonyms : C12-15 Alkyl Benzoate (And) Titanium Dioxide (And) Alumina (And) Polyhydroxystearic Acid (And) Isopropyl titanium triisostearate (And) Triethoxycaprylylsilane

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS #</u>	<u>EINECS #</u>
Titanium Dioxide	13463-67-7	236-675-5
C12-15 Alkyl Benzoate	68411-27-8	205-582-1
Alumina	1344-28-1	215-691-6
Polyhydroxystearic Acid	27924-99-8	500-140-7
Isopropyl Titanium Triisostearate	61417-49-0	262-774-8
Triethoxycaprylylsilane	2943-75-1	220-941-2

SECTION 3: HAZARD IDENTIFICATION

No hazard identification

SECTION 4: FIRST AID MEASURES

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.
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) : >160°C
Flammable Limits LEL/UEL % : N/A
Extinguishing Media : Water, Dry Chemical, Foam, and CO₂
Special Fire Fighting Procedures : Self-contained breathing apparatus and protective clothing.
Unusual Fire And Explosion Hazards : None.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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.

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 away for all possible combustion.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Levels:	OSHA		ACGIH	
	<u>TWA</u>	<u>PEL</u>	<u>TWA</u>	<u>TLV</u>
TiO ₂	15 mg/m ³		10 mg/m ³	

TNP40VTTS

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)	: >275	Percent Volatile By Vol. (%)	: N/A
Freezing Point (°C)	: <0	Vapor Density (Air=1)	: N/A
Melting Point (°C)	: N/A	Evaporation Rate (Buac=1)	: N/A
Vapor Pressure (mm hg)	: N/A	Solubility In Water	: Insoluble
Specific Gravity (H ₂ O)	: N/A	Appearance & Odor	: White liquid, characteristic odor

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>C12-15 Alkyl Benzoate</u>
Skin Irritation	: Dermal LD ₅₀ > 10 g/kg (rabbit)	Non-irritant
Eye Irritation	: Non-irritating, Draize score = 0.00 (rabbit)	Non-irritant (rabbit)
Acute Oral Toxicity	: Non-toxic, LD ₅₀ > 25 g/kg (rat)	Single dose LD ₅₀ > 1 g/kg (mice)
Inhalation LC ₅₀	: >6.82 mg/L (4 hour)	No data

*: 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. Classifiable Group 2B (possibly carcinogenic to humans) by IARC [Titanium Dioxide].
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 Sensitization

May cause eye, and respiratory irritation.
 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

No information is available.

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 Classification : Not regulated
- TDG Classification : Not regulated
- IMO/IMDG Classification : Not regulated
- ICAO/IATA Classification : 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

SECTION 16: OTHER INFORMATION

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

Health	1
Fire Hazard	1
Reactivity	0
Personal Protection	C

Date Prepared : April 10, 2003
Date Revised : July 14, 2003
Date Revised : April 14, 2004
Date Revised : August 2, 2007
By Eric Smith
Date Revised : October 8, 2009
By Neringa Kontrimiene
Date Revised : April 21, 2010
By Neringa Kontrimiene

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.