

# 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  
South Plainfield, NJ 07080  
Emergency Telephone # : (908) 757-0033  
Facsimile Number : (908) 757-0905  
Trade Name : **ASO-I2**  
Chemical Name/ Synonyms : Aluminum Starch Octenylsuccinate (And) Tris(Isooctadecanoato-O)  
(2-Propanolato)Titanium  
INCI Name : Aluminum Starch Octenylsuccinate (And) Isopropyl Titanium Triisostearate

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## SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

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Chemical Name	CAS #	EINECS #
Aluminum Starch Octenylsuccinate	9087-61-0	N/A
Tris(Isooctadecanoato-O)(2-Propanolato)Titanium	61417-49-0	262-774-8

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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  
Auto Ignition Temp : 300°C  
Extinguishing Media : Water, Dry Chemical, Foam, and CO2  
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.

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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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**ASO-I2**

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.

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

<b>Exposure Levels:</b>	OSHA		ACGIH	
<u>Component</u>	<u>TWA</u>	<u>PEL</u>	<u>TWA</u>	<u>TLV</u>
Aluminum Starch Octenylsuccinate				5mg/m3

**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) : N/A	Evaporation Rate (Buac=1) : N/A
Vapor Pressure (mm hg) : N/A	Solubility In Water : Insoluble
Bulk Density (g/cbi.) : 3.0 - 9.0	Appearance & Odor : Off white powder, Slight waxy odor.
Specific Gravity : 1.5 - 2.0	

**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>Aluminum Starch Octenylsuccinate</u>	<u>Isopropyl Titanium Triisostearate</u>
Skin Irritation (rabbit) :	Minimal irritant	Minimal irritant
Primary Eye Irritation (rabbit) :	Mild irritant	Mild irritant
Acute Oral Toxicity (rat) :	Low toxicity	Average Draize score = 0.40
Sensitization :	Minimal sensitizer	Non-toxic, LD <sub>50</sub> > 2 g/kg (rat)
		Non-sensitizer (guinea pig)

**SECTION 12: ECOLOGICAL INFORMATION**

No data 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**

<b>DOT Classification</b>	Not regulated.
<b>TDG Classification</b>	Not regulated.
<b>IMO/IMDG Classification</b>	Not regulated.
<b>ICAO/IATA Classification</b>	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.

**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	F

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

Date Prepared : July 7, 1998  
 Date Revised : March 19, 2003  
 Date Revised : September 5, 2003  
 Date Revised : April 19, 2004

**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.