

MATERIAL SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT IDENTIFICATION

Manufacturer/Distributor : Kobo Products, Inc.
Address : 3474 South Clinton Ave..
South Plainfield, NJ 07080
Emergency Telephone # : (908) 757-0033
Facsimile Number : (908) 757-0905
Trade Name : **ZnO-C**
Chemical Name/ Synonyms : Zinc Oxide

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

<u>INCI Name</u>	<u>CAS #</u>	<u>EINECS #</u>
Zinc Oxide	1314-13-2	215-222-5

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 may be at increased risk.
Primary Route(s) of Entry : Oral 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 soap and water.
Inhalation : None
Ingestion : None needed for small amounts. For large amounts, if conscious, give water or milk and induce vomiting. Call physician.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point (Closed Cup) : N.A.
Flammable Limits LEL/UEL % : N/A
Extinguishing Media : N/A
Special Fire Fighting Procedures : None.
Unusual Fire And Explosion Hazards : None

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions : Eye contact and excessive skin contact.
Environmental Precautions : Dust easily flies and measures to prevent scattering of this material must be taken
Spill response : Use appropriate NIOHS/MSHA approved respirator. Wear chemical gloves, goggles, and lab coat. Carefully contain spilled material. After recovering the material, ventilate the place fully and wash spill area with 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 : This material slowly degenerates by absorbing carbon dioxide in air and must be stored in a sealed containers. Damp material gets degenerated especially and must be stored in tightly sealed container.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Levels:		<u>OSHA's PEL</u>	<u>ACGIH's TLV</u>
ZnO	Nuisance Dust	15 mg/m ³	10mg/m ³
	Respirable Dust	5 mg/m ³	5 mg/m ³

ZnO-C

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 local mechanical exhaust.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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|------------------------|-------------------------|------------------------------|-----------------|
| Boiling Point (°C) | : 1975 (under pressure) | 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 | : 4.2 mg/L |
| Bulk Density (g/cbi.) | : N/A | Appearance & Odor | : White powder, |

SECTION 10: STABILITY AND REACTIVITY

- Stable : Very stable under standard temperature and light conditions.
- Hazardous Polymerization : Will not occur
- Conditions To Avoid : Extreme heat and moisture.
- Incompatibility : Strong caustic or acidic materials can cause a reaction.
- Hazardous Decomposition Products : Smoke and dust.

SECTION 11: TOXICOLOGICAL INFORMATION

- Skin Irritation : None when 0.5 mL/patch of 50 % water dispersion
- Primary Eye Irritation : Slight stimulus, Draize Score= 6.67
- Acute Oral Toxicity : Non-toxic, LD₅₀ > 2 g/kg (rat)
- Acute Skin Toxicity : Non-toxic, LD₅₀ > 2 g/kg (rat)
- Mutagenicity : Negative (Ames test)

SECTION 12: ECOLOGICAL INFORMATION

Environmental impacts may be caused if the material leaks or discarded. Care must be exercised in handling it.

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

The same precautions as those described in Section 7. Handling and Storage should be exercised.

SECTION 15: REGULATORY INFORMATION

- Label Name : ZnO-C

SECTION 16: OTHER INFORMATION

- Date Revised : April 10, 2009

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.