

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: **HMZ-50**
INCI: Zinc Oxide (And) Polymethyl Methacrylate
Material Uses: Component in personal care products

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

| <u>Ingredient</u> | <u>CAS #</u> | <u>EINECS #</u> |
|-------------------------|--------------|-----------------|
| Zinc Oxide | 1314-13-2 | 215-222-5 |
| Polymethyl Methacrylate | 9011-14-7 | Polymer |

SECTION 3: HAZARD IDENTIFICATION

Physical State and Appearance: Solid (odorless, white powder)
Emergency Overview: May cause respiratory tract, eye and skin irritation.
Routes of Entry: Eye contact and Inhalation.

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 hazardous in case of ingestion.

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: If conscious, give milk to drink, induce vomiting, and call physician.

SECTION 5: FIRE FIGHTING MEASURES

Flammability: N/A
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

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**Exposure Levels:**

| <u>Component</u> | <u>OSHA's PEL</u> | <u>ACGIH's TLV</u> |
|------------------|----------------------|---------------------|
| ZnO (Total Dust) | 15 mg/m ³ | 10mg/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): | N/A | Evaporation Rate (Buac=1): | N/A |
| Vapor Pressure (mm hg): | N/A | Solubility In Water: | Insoluble |
| Bulk Density (g/cbi.): | N/A | Appearance & Odor: | White powder. No odor |

SECTION 10: STABILITY AND REACTIVITY

Stable: Stable

Hazardous Polymerization: Will not occur

Incompatibility: Strong oxidizing agents

Hazardous Decomposition Products: Nature of decomposition products is not known

SECTION 11: TOXICOLOGICAL INFORMATION

Zinc Oxide

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)

Chronic Effects on Humans

CARCINOGENIC EFFECTS: Classified None by NIOSH [Zinc Oxide]. Classified A4 (not classifiable for human or animal) by ACGIH. 3 (not classifiable for human) by IARC [Zinc 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 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

SECTION 13: DISPOSAL CONSIDERATIONS

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

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 | 0 |
| Reactivity | 0 |
| Personal Protection | E |

Date Prepared: June 16, 2010
By Neringa Kontrimiene

Note:

The statements made here are based upon technical data that Kobo Products Inc. believes to be reliable, 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.