

Issue date 14-Mar-2014

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Version 1

## 1. Identification of the Substance/Preparation and of the Company/Undertaking

### Product identifier

**Product name** ZNO-C-DMC2

### Recommended use of the chemical and restrictions on use

**Recommended use** Cosmetic additive.

**Uses advised against** No information available

### Details of the supplier of the safety data sheet

#### **Manufacturer address**

Kobo Products, Inc.  
3474 South Clinton Avenue  
South Plainfield, NJ 07080 USA

### Emergency telephone number

**Company phone number** 1-908-757-0033

## 2. Hazards Identification

### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### Label elements

#### EMERGENCY OVERVIEW

**Appearance** Powder **Physical state** Solid **Odor** None

### Hazards not otherwise classified (HNOC)

Not applicable

### Other Information

- Very toxic to aquatic life with long lasting effects
- Very toxic to aquatic life
- May be harmful if swallowed

## 3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%
Zinc Oxide	1314-13-2	96.0-99.0
Hydrogen Dimethicone	68037-59-2	1.00-4.00

## 4. First aid measures

### First aid measures

<b>General advice</b>	If symptoms persist, call a physician.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
<b>Inhalation</b>	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration.
<b>Ingestion</b>	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
<b>Self-protection of the first aider</b>	Use personal protective equipment as required.

### Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	Product dust may be irritating to eyes, skin and respiratory system.
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### Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.
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## 5. Fire-fighting measures

### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** No information available.

### Specific hazards arising from the chemical

None in particular.

#### Explosion data

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

### Protective equipment and precautions for firefighters

Use personal protective equipment as required.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Use personal protective equipment as required. Wash thoroughly after handling. Avoid creating dust. Avoid contact with eyes.
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<b>For emergency responders</b>	Use personal protective equipment as required.
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<b><u>Environmental precautions</u></b>	Collect spillage. Do not allow into any sewer, on the ground or into any body of water.
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### Methods and material for containment and cleaning up

<b>Methods for containment</b>	Prevent further leakage or spillage if safe to do so.
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<b>Methods for cleaning up</b>	Avoid creating dust. Sweep up and shovel into suitable containers for disposal.
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<b>Prevention of secondary hazards</b>	Clean contaminated objects and areas thoroughly observing environmental regulations.
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## 7. Handling and Storage

### Precautions for safe handling

**Advice on safe handling** Avoid creating dust. Use only in well-ventilated areas. Avoid contact with skin and eyes. Use personal protective equipment as required.

### Conditions for safe storage, including any incompatibilities

**Storage conditions** Keep container tightly closed in a dry and well-ventilated place. Store at ambient conditions.

**Incompatible materials** Incompatible with strong acids and bases.

## 8. Exposure Controls/Personal Protection

### Control parameters

#### Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Zinc Oxide 1314-13-2	STEL: 10 mg/m <sup>3</sup> respirable fraction TWA: 2 mg/m <sup>3</sup> respirable fraction	TWA: 5 mg/m <sup>3</sup> fume TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 5 mg/m <sup>3</sup> fume (vacated) TWA: 10 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) STEL: 10 mg/m <sup>3</sup> fume (vacated)	IDLH: 500 mg/m <sup>3</sup> Ceiling: 15 mg/m <sup>3</sup> dust TWA: 5 mg/m <sup>3</sup> dust and fume STEL: 10 mg/m <sup>3</sup> fume

### Appropriate engineering controls

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear protective gloves and protective clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

<b>Physical state</b>	Solid	<b>Odor</b>	None
<b>Appearance</b>	Powder	<b>Odor threshold</b>	No information available
<b>Color</b>	White		

<u>Property</u>	<u>Values</u>	<u>Remarks</u> •
<b>pH</b>	No information available	
<b>Melting point/freezing point</b>	1975 °C	
<b>Boiling point / boiling range</b>	No information available	
<b>Flash point</b>	No information available	
<b>Evaporation rate</b>	No information available	
<b>Flammability (solid, gas)</b>	No information available	
<b>Flammability limit in air</b>		
<b>Upper flammability limit</b>	No information available	

<b>Lower flammability limit</b>	No information available
<b>Vapor pressure</b>	No information available
<b>Vapor density</b>	No information available
<b>Specific gravity</b>	No information available
<b>Water solubility</b>	Insoluble in water
<b>Solubility in other solvents</b>	No information available
<b>Partition coefficient</b>	No information available
<b>Autoignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Kinematic viscosity</b>	No information available
<b>Dynamic viscosity</b>	No information available
<b>Explosive properties</b>	Not applicable
<b>Oxidizing properties</b>	Not applicable

**Other Information**

<b>Softening point</b>	No information available
<b>Molecular weight</b>	No information available
<b>VOC content (%)</b>	No information available
<b>Density</b>	No information available
<b>Bulk density</b>	No information available

**10. Stability and Reactivity****Reactivity**

No data available

**Chemical stability**

Stable under normal conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Hazardous polymerization**

Hazardous polymerization does not occur.

**Conditions to avoid**

None known.

**Incompatible materials**

Incompatible with strong acids and bases.

**Hazardous decomposition products**

None known.

**11. Toxicological Information****Information on likely routes of exposure****Product information**

<b>Inhalation</b>	No data available.
<b>Eye contact</b>	No data available.
<b>Skin contact</b>	No data available.
<b>Ingestion</b>	No data available.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Zinc Oxide 1314-13-2	> 5000 mg/kg ( Rat )	>2000 mg/kg (Rat)	-

**Information on toxicological effects**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** No information available.  
**Serious eye damage/eye irritation** No information available.  
**Irritation** No information available.  
**Corrosivity** Not applicable.  
**Sensitization** No information available.  
**Germ cell mutagenicity** No information available.  
**Carcinogenicity** .  
**Reproductive toxicity** No information available.  
**Developmental toxicity** No information available.  
**Teratogenicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Aspiration hazard** No information available.

## 12. Ecological Information

**Ecotoxicity**

Chemical name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Zinc Oxide 1314-13-2	IC50 (72h) <1mg/l	LC50 (96h) <1mg/l		

**Persistence and degradability**

Not readily biodegradable.

**Bioaccumulation**

No information available.

**Other adverse effects**

No information available

## 13. Disposal Considerations

**Waste treatment methods**

**Disposal of wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

Chemical name	California Hazardous Waste Status
Zinc Oxide 1314-13-2	Toxic

### 14. Transport Information

**Note:** For single packaging and combination packaging containing inner packaging with dangerous goods > 5L for liquids or > 5kg for solids:

#### DOT

**Proper shipping name** 3077 - Environmentally hazardous substances, solid, n.o.s  
**Hazard class** 9  
**Packing group** III

#### ICAO (air)

**UN/ID no** 3077  
**Proper shipping name** 3077 - Environmentally hazardous substances, solid, n.o.s  
**Hazard class** 9  
**Packing group** III

#### IATA

**UN/ID no** 3077  
**Proper shipping name** 3077 - Environmentally hazardous substances, solid, n.o.s  
**Hazard class** 9  
**Packing group** III

#### IMDG

**UN/ID no** 3077  
**Proper shipping name** 3077 - Environmentally hazardous substances, solid, n.o.s  
**Hazard class** 9  
**Packing group** III  
**Marine pollutant** This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO

#### RID

**UN/ID no** 3077  
**Proper shipping name** 3077 - Environmentally hazardous substances, solid, n.o.s  
**Hazard class** 9  
**Packing group** III

#### ADR

**UN/ID no** 3077  
**Proper shipping name** 3077 - Environmentally hazardous substances, solid, n.o.s  
**Hazard class** 9  
**Packing group** III

### 15. Regulatory information

#### International inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances  
AICS - Australian Inventory of Chemical Substances

### US Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### **SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

#### **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Zinc Oxide 1314-13-2		X		

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

### US State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

### U.S. State Right-to-Know Regulations

This product may contain substances regulated by state right-to-know regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Zinc Oxide 1314-13-2	X	X	X

## 16. Other information

<b>NFPA</b>	<b>Health Hazards</b> 1	<b>flammability</b> 0	<b>Instability</b> 0	<b>Physical and chemical properties - PERSONAL PROTECTION E</b>
<b>HMIS</b>	<b>Health Hazards</b> 1	<b>flammability</b> 0	<b>Physical Hazards</b> 0	

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<b>Revision note</b>	

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**