

## Zinc Oxide Dispersion, Paste

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 /  
March 26, 2012 / Rules and Regulation

Revision Date: 21-Feb-2024  
Supersedes: 29-Jan-2024

### 1 PRODUCT & COMPANY IDENTIFICATION

<b>Product Name:</b>	Zinc Oxide Dispersion, Paste	<b>Distributor:</b>	MakingCosmetics Inc.
<b>Synonyms:</b>	No data available	<b>Address:</b>	10800 231 <sup>st</sup> Way NE Redmond, WA 98053 (USA)
<b>INCI Name:</b>	Zinc oxide, Caprylic/Capric Triglyceride, Polyhydroxystearic Acid, Isostearic Acid, Lecithin, Polyglyceryl-3 Polyricinoleate	<b>Phone / Fax:</b>	425-292-9502 / 425-292-9601
<b>CAS Number:</b>	1314-13-2, 65381-09-1, 73398-61-5, 27924-99-8, 30399-84-9, 8002-43-5, 29894-35-7	<b>Web:</b>	<a href="http://www.makingcosmetics.com">www.makingcosmetics.com</a>
<b>Formula:</b>	No data available	<b>Emergency Telephone Number:</b>	1-800-424-9300 (Chemtrec)
<b>Product Form:</b>	Solid		
<b>Product Use:</b>	Cosmetic use		

### 2 HAZARDS IDENTIFICATION

<b>GHS Classification:</b>	H400 -Acute aquatic toxicity: Category 1. Very toxic to aquatic life H410-Long term hazard to aquatic environment: Category 1, Very toxic to aquatic life with long lasting effect												
<b>GHS Labeling:</b>	<b>WARNING</b>												
<b>GHS Product Identifier:</b>	G-Block DZ480CCT												
<b>GHS Hazard Pictograms:</b>													
<b>GHS Hazard Statements:</b>	Very toxic to aquatic life Very toxic to aquatic life with long lasting effects												
<b>GHS Precautionary Statements:</b>	(P273) Avoid release to the environment (P391) Collect Spillage (P501) Disposal of contents/container in a safe way												
<b>Potential Health Hazards:</b>	Eyes: May cause slight eye irritation. Corneal injury is unlikely Inhalation: At room temperature, exposure to vapor is minimal due to low volatility. Skin: Brief contact is nonirritating to skin. Prolonged contact may cause slight skin irritation with local redness. Repeated contact may cause light skin irritation with local redness. Prolonged skin contact is unlikely to result in absorption of harmful amounts. Ingestion: Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal operation are not likely to cause injury; However, swallowing a large amount may cause injury. Swallowing may result in gastrointestinal irritation. May cause nausea and vomiting.												
<b>NFPA Ratings (704):</b>	<table border="0"> <tr> <td>Health</td> <td>1</td> <td>Slight</td> </tr> <tr> <td>Flammability</td> <td>0</td> <td>Minimal</td> </tr> <tr> <td>Reactivity</td> <td>0</td> <td>Minimal</td> </tr> <tr> <td>Specific Hazard</td> <td>N/A</td> <td></td> </tr> </table>	Health	1	Slight	Flammability	0	Minimal	Reactivity	0	Minimal	Specific Hazard	N/A	
Health	1	Slight											
Flammability	0	Minimal											
Reactivity	0	Minimal											
Specific Hazard	N/A												

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>Molecular Weight</u>
Zinc oxide	1314-13-2	76% - 81.5%	Not available
Caprylic/Capric Triglyceride	65381-09-1	Not available	Not available
	73398-61-5		
Polyhydroxystearic Acid	27924-99-8	Not available	Not available
Isostearic Acid	30399-84-9	Not available	Not available
Lecithin	8002-43-5	Not available	Not available

Polyglyceryl-3 Polyricinoleate    29894-35-7    Not available    Not available

## 4 FIRST AID MEASURES

**Eyes:** Irrigate with eyewash solution or clean water. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. Hold the eyelids apart and flush for at least 10 minutes. Consult with eye doctor if irritation persists.

**Inhalation:** Move to fresh air. Seek medical attention if necessary.

**Skin:** Remove contaminated clothing, and wash with water and soap. If irritation persists seek medical attention.

**Ingestion:** Wash out mouth with water and give 200 -300 ml of water to drink. Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. Seek medical attention if necessary.

**General Information:** If potential for exposure exists, refer to Section 8 for specific personal protective equipment.

## 5 FIRE-FIGHTING MEASURES

**Suitable (and unsuitable) extinguishing media:** Use appropriate media (Water fog or fine spray, dry chemical, Carbon dioxide, general purpose synthetic foams (including AFFF type), or protein foams are preferred) for adjacent fire. Do not use direct water jet.

**Special protective equipment & precautions for firefighters:** Keep people away. Isolate fire and deny unnecessary entry. Do not use direct water stream, may spread fire. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Contain fire water run-off if possible. If not contained, fire water run-off may cause environmental damage. Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

**Flash Points:** 179.4 °C

**Specific hazards arising from the chemical:** Direct fire hazard: Not flammable. Indirect fire Hazard: heating increases the fire hazard. Temperature above flash point higher fire/explosion hazard. No direct explosion hazard. Violent steam generation or eruption may occur upon application of direct water stream to hot liquid. Dense smoke may be produced when product burns. Upon burning, release of carbon monoxide/carbon dioxide and other combustion products of varying composition which may be toxic and/or irritating. See also Stability and Reactivity section.

**General Measures:** Mark the danger area. Upon exposure to heat, have neighborhood close doors and windows and consider evacuation. Wash all contaminated clothes.

## 6 ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment & emergency procedures:** Spilled material may cause a slipping hazard. Emergency responders must isolate area. Keep unnecessary and unprotected personnel from entering the area. See section 8 for recommendations on the use of personal protective equipment.

**Environmental precautions:** This product contains 80% of Zinc Oxide which is harmful to the aquatic organism. Avoid liquid release into sewers/public water/environment. Notify environmental authorities in case of leak.

**Methods and material for containment and cleaning up:** Wear protective clothing to prevent skin and eye contamination, as well as dust masks to avoid dust inhalation. Contain spilled material if possible. For small spills, remove and wipe up residue using absorbent material. Absorb with materials such as: sand, earth, non-combustible material. Please exercise caution as contaminated surfaces will be very slippery. Any dust formation must be cleaned using a vacuum cleaner equipped with HEPA-type filter. Wash the spill site with water. Large spills: collect in suitable and properly labeled containers. Dispose of all waste and cleanup materials in accordance with local regulations. For unused & uncontaminated product, the preferred options include sending to a licensed, permitted recycler or reclaimer for incinerator or other thermal destruction device.

## 7 HANDLING & STORAGE

**Precautions for safe handling:** Prevent eye contact and ingestion. Wash thoroughly with soap/water after handling. Use appropriate personal protective equipment. Observe good industrial hygiene practices. See section 8 for

**Conditions for safe storage, incl. any incompatibilities:**

recommendations on the use of personal protective equipment.  
 Keep the product away from ignition sources, strong acids, strong bases, and strong oxidizing agents. Store in a well-ventilated place, at room temperature, (avoid storing at extreme high and low temperatures).  
 Keep container tightly closed and correctly labeled, meeting the legal requirements. Proper packaging materials include plastics or steel with plastic inner lining. Store away from incompatible materials (see section 10 for incompatibilities).

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	<u>Exposure Limits</u>	<u>Basis</u>	<u>Entity</u>
Zinc oxide	Not available	Not available	Not available
Caprylic/Capric Triglyceride	Not available	Not available	Not available
Polyhydroxystearic Acid	Not available	Not available	Not available
Isostearic Acid	Not available	Not available	Not available
Lecithin	Not available	Not available	Not available
Polyglyceryl-3 Polyricinoleate	Not available	Not available	Not available

TWA: Time Weighted Average over 8 hours of work.  
 TLV: Threshold Limit Value over 8 hours of work.  
 REL: Recommended Exposure Limit  
 PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.  
 IDLH: Immediately Dangerous to Life or Health  
 WEEL: Workplace Environmental Exposure Levels  
 CEIL: Ceiling

**Personal Protection:**

- Eyes:** Safety glasses with side shields should be worn.
- Inhalation:** Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements/guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operation. Local exhaust ventilation may be necessary for some operations. Under intended handling conditions, no respiratory protection should be needed.
- Body:** Wear clean, body-covering clothes. Use gloves when prolonged or frequently repeated contact could occur. Select the gloves which have good chemical resistant to this product and other commonly used products in your production.
- Ingestion:** Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Off-white paste	<b>Vapor Pressure:</b>	No data available
<b>Odor:</b>	Mild characteristic odor	<b>Vapor Density:</b>	No data available
<b>Odor Threshold:</b>	No data available	<b>Evaporation Rate:</b>	No data available
<b>Color:</b>	Off-white	<b>Flammability:</b>	No data available
<b>Molecular Weight:</b>	No data available	<b>Upper/lower Explosive Limit:</b>	No data available
<b>pH:</b>	Not applicable	<b>Flash Point:</b>	179.4 °C according to the literature
<b>Boiling Point/Range:</b>	No data available	<b>Specific Gravity:</b>	2.63 - 2.93
<b>Melting Point:</b>	Not applicable	<b>Solubility:</b>	Not soluble in water. Dispersible in oils & most organic solvents
<b>Density:</b>	2 - 2.5	<b>Auto-Ignition Temperature:</b>	No data available
<b>Partition Coefficient: n-octanol/water:</b>	No data available	<b>Decomposition Temperature:</b>	No data available
<b>Viscosity:</b>	8000 -120000 cP	<b>Explosive Limits/Properties:</b>	Not explosive

## 10 STABILITY AND REACTIVITY

- Reactivity:** No dangerous reaction known under conditions of normal use.
- Chemical Stability:** Stable under normal conditions.
- Hazardous Polymerization:** Will not occur.
- Conditions to Avoid:** Exposure to elevated high temperature can cause product to decompose.
- Incompatible Materials:** Avoid strong oxidizing agents, strong acid and base
- Hazardous Decomposition Products:** No data available
- Possible Hazardous Reactions:** On burning, release carbon monoxide/carbon dioxide, and other combustion productions which may be toxic or irritating.

## 11 TOXICOLOGICAL INFORMATION

<b>Acute Toxicity</b>	
<b>Skin:</b>	No data available
<b>Eyes:</b>	In two-thirds reports selected in the document EU-RAR 43 (2004), very slight stimulation is reported, and another no stimulation is reported. Not Classified.
<b>Respiratory:</b>	No data available
<b>Ingestion:</b>	Oral LD50 (Rat): > 5000mg/Kg (EU-RAR 43(2004)), Not Classified
<b>Inhalation:</b>	ZnO dust, LC 50: > 5.7mg/Kg (EU-RAR 43(2004)), Not classified Under normal use condition, this product post does not have inhalation
<b>Carcinogenicity:</b>	EPA of US: Group D. Animal test: Negative. Not Classified.
<b>Teratogenicity:</b>	No data available
<b>Germ Cell Mutagenicity:</b>	The result of the chromosomal aberration test in vivo as false positive. In vitro reports, one was positive, but other was negative. Therefore, it is not classified in GHS Classification
<b>Specific Target Organ Toxicity:</b>	The repetition-inhalation exposure to the guinea pig and the rat showed the influence in lungs. The reports are conclusion but not sufficient for classification.
<b>Reproductive Toxicity:</b>	Not Classified. EU-RAR 43 (2004).
<b>Dermal Corrosion:</b>	No stimulating is supposed as described in ACGIH (2003) and EU-RAR 43 (2004)(Rabbit). Not classified
<b>Skin Sensitization:</b>	Not Classified. EU-RAR 43 (2004)

## 12 ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	The information is based on the main components: Zinc Oxide and Caprylic/Capric Triglyceride. The remaining components are not expected to present any ecological hazards, based on the available data.
<b>Ecology General:</b>	Very toxic to aquatic organisms. Do not discharge into the drains.
<b>Aquatic Vertebrate:</b>	Zinc Oxide (LC 50/EC50, 0.1 mg/L in the most sensitive species). Zinc Oxide: LC50, (Fish: rainbow trout): 96 hours, 0.14-1.1 mg/L Caprylic/capric triglyceride: (Toxicity to aquatic species occurs at concentrates above material's water solubility) LC50, (Fish: rainbow trout): 96 hours > = 53mg/L
<b>Aquatic Invertebrate:</b>	Zinc Oxide: EC50, Daphnia magna (water flea): 48 hours, immobilization: 0.07 mg/L Caprylic/capric triglyceride: EC50, Daphnia magna (water flea): 24 hours, immobilization: >2.2mg/L
<b>Terrestrial:</b>	Caprylic/capric triglyceride: Micro-organisms - EC10: Bacteria, 5 hours: > 1,900 mg/L
<b>Persistence and Degradability:</b>	Zinc Oxide: Biodegradation is not applicable Caprylic/Capric triglyceride: Readily biodegradable. OECE test (Method ISO 10708): Biodegradation: 93%. Exposure time: 28 days. 10-day Window: Pass
<b>Bioaccumulative Potential:</b>	Zinc oxide: Partition coefficient, n-octanol/water is not applicable Caprylic/capric triglyceride: Log Pow >3
<b>Mobility in Soil:</b>	No data available.
<b>PBT and vPvB Assessment:</b>	No data available.
<b>Other Adverse Effects:</b>	No data available.

## 13 DISPOSAL CONSIDERATIONS

<b>Waste Residues:</b>	Do not discharge into drains or the body of water. Dispose by a licensed waste treatment company. For unused & uncontaminated product, the preferred options include sending to a licensed, permitted recycler or reclaimer for incinerator or other thermal destruction device. Dispose of contents/container in accordance with all applicable local regulations.
<b>Product Containers:</b>	Dispose of contents/container in accordance with all applicable local regulations.

The information in section 13 is for the product as shipped. Use and/or alterations to the product may change the characteristics of the material and alter the waste classification and proper disposal methods

## 14 TRANSPORT INFORMATION

<b>DOT (Dept. of Transportation, USA):</b>	Bulk and Non-Bulk: Not regulated as dangerous goods.
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<p><b>TDG (Transportation of Dangerous Goods, Canada):</b></p> <p><b>IMDG (International Maritime Dangerous Goods):</b></p> <p><b>IATA (International Air Transport Association):</b></p> <p><b>ADR/RID</b></p>	<p>UN Number: UN 3082</p> <p>UN Packing Group: III</p> <p>UN Hazard Class Primary: 9</p> <p>Not data available.</p> <p>Proper Shipping Name: Environmentally hazardous substance, liquid, N.O.S (contains Zinc Oxide)</p> <p>Marine Pollutant: Yes</p> <p>Class-Primary: 9</p> <p>EMS Number: F-A, S-F</p> <p>Proper Shipping Name: Environmentally hazardous substance, liquid, N.O.S (contains Zinc Oxide)</p> <p>Hazard Class: 9</p> <p>UN Number: UN 3082</p> <p>Packing Group: III</p> <p>Cargo Packing Instructions: 964</p> <p>Passenger Packing Instructions: 964</p> <p>Proper Shipping Name: Environmentally Hazardous substance, Solid, N.O.S. (Zinc Oxide)</p> <p>UN Number: 3077</p> <p>Class: 9</p> <p>Packaging Group: III</p> <p>ADR/RID-Labels 9+ENV</p> <p>Risk Number: 90</p> <p>Limited Quantity: 5kg</p> <p>Tunnel Code: E</p>
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## 15 REGULATORY INFORMATION

<p><b>OSHA Hazard Communication Standard:</b></p> <p><b>Resource Conservation and Recovery Act:</b></p> <p><b>CERCLA/Superfund:</b></p> <p><b>SARA 302 -Extremely Hazardous Substances</b></p> <p><b>SARA 304 Hazardous Substances:</b></p> <p><b>SARA 311/312 Hazardous Communication Standard:</b></p> <p><b>SARA 313 Toxic Chemical List:</b></p> <p><b>PA &amp; NJ Right to Know Listed Substance:</b></p> <p><b>MA Right to Know Listed Substance:</b></p> <p><b>TSCA Inventory Status:</b></p> <p><b>DSL (Canada):</b></p> <p><b>EU (EINECS)</b></p> <p><b>EU (ELINCS/NLP/REACH)</b></p> <p><b>China IECSC:</b></p> <p><b>Australia AICS:</b></p> <p><b>Philippines PICCS:</b></p> <p><b>Korea ECL:</b></p> <p><b>New Zealand NZIOC:</b></p> <p><b>California Prop. 65:</b></p>	<p>Not considered a “hazardous chemical” as defined by 29 CFR 1910.1200</p> <p>Not listed (RCRA (40 CFR 261))</p> <p>No RQ</p> <p>Not listed</p> <p>No RQ</p> <p>Immediate (acute) health hazard: No</p> <p>Delayed (Chronic) health hazard: No</p> <p>Fire hazard: No</p> <p>Reactive hazard: No</p> <p>Sudden Release of Pressure Hazard: No</p> <p>This product contains the following substances which are subject to the reporting requirements of this regulation: Zinc oxide, (CAS# 1314-13-2) &gt; 60%; &lt; 75%</p> <p>Environmental Hazardous Substance List: Zinc oxide, CAS # 1314-13-2&gt; 60%; &lt; 75%</p> <p>Pennsylvania Special Hazardous Substance List: To the best of our knowledge, this product does not contain chemical at level which require reporting under this statute</p> <p>Zinc Oxide, CAS # 1314-13-2, &gt; 60%; &lt; 75%</p> <p>Compliant</p> <p>To the best of our knowledge, this product does not contain any listed substance known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which</p>
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would require a warning under the statute.

## 16 OTHER INFORMATION

**Revision Date:** 21-Feb-2024

**Compliance:** This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

**Disclaimer:** This 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 other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.