

MSDS

SECTION 1.

Product name	Zinc Oxide (USP) Raw Material
INCI name	Zinc Oxide, ZnO
CAS #	1314-13-2
Country of Origin	Canada
EINECS #	215-222-5
Product use	Cosmetic and Industrial
Supplier	Botanic Planet Canada Inc.
Address	2 Bram Crt Unit # 3-4 Brampton, Ontario, Canada
Telephone number	905-455-4444
Emergency phone number	(613)-996-6666 CANUTEC 24 HOUR EMERGENCY

SECTION 2.

Emergency Overview

GHS Classification

Not classified as dangerous goods as per OSHA.

GHS Label elements, including precautionary statements

Signal: Not applicable

Hazard statement(s)

Not applicable.

Precautionary statement(s)

Not applicable.

GHS Label elements, including precautionary statements

SECTION 3.

Product Name	CAS NO	EC NO	Concentration
Zinc oxide	1314-13-2	215-222-5	100 %

SECTION 4.

FIRST-AID MEASURES INHALATION EXPOSURE:

Normal inhalation is unlikely to produce adverse reactions. Use in well ventilated areas. In the event of adverse reactions. Remove to fresh air. Give oxygen and call a physician.

EYE CONTACT: Flush with water for 15 min without making eyes sore. Unsweetened Milk may help flush oil from eyes. Seek medical help if necessary.

SKIN CONTACT: Wash area with undiluted dishwashing liquid and flush with copious amounts of water. Seek medical help if necessary.

INGESTION: Flush from mouth with water or unsweetened milk. Administer water and call a physician or poison control center immediately. Do not induce vomiting.

SECTION 5.

FIRE FIGHTING MEASURES

Suitable extinguishing media

Carbon Dioxide, powder or water spray.

Special protective equipment and precautions for fire-fighters

Wear proper protective equipment. Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.

Special hazards arising from the substance or its combustible products

Hazardous decomposition products may be formed at extreme heat or if burned.

Resulting gases

Carbon oxides.

SECTION 6.

ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED Standard absorbents can be used.

WASTE DISPOSAL METHOD: Incineration or sanitary landfill in accordance with local, state, and federal regulations.

SECTION 7.

HANDLING AND STORAGE HANDLING

Avoid breathing in dust. To prevent explosion hazards, do not allow dust to settle on surfaces. It is recommend that all dust control equipment and material transport systems involved in handling of this product contain explosion relief vents or explosion suppression systems. All conductive elements of the system that contacts this material should be electrically bonded and grounded.

STORAGE Store in a cool, well-ventilated area.

FIRE PROTECTION Keep away from ignition sources and naked flame.

SECTION 8.

EXPOSURE CONTROLS

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

VENTILATION:

Mechanical (general)

NIOSH REL (United States, 6/2009).

CEIL: 15 mg/m³ Form: Dust

TWA: 5 mg/m³ 10 hour(s). Form: Dust and fumes

STEL: 10 mg/m³ 15 minute(s). Form: Fume

OSHA PEL (United States, 11/2006).

TWA: 5 mg/m³ 8 hour(s). Form: Fume

TWA: 5 mg/m³ 8 hour(s). Form: Respirable fraction

TWA: 15 mg/m³ 8 hour(s). Form: Total dust

ACGIH TLV (United States, 1/2009).

STEL: 10 mg/m³ 15 minute(s).

TWA: 2 mg/m³ 8 hour(s).

PROTECTIVE GLOVES: Rubber gloves

EYE PROTECTION: Splash-proof safety glasses.

RESPIARTORY: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: Use appropriate NIOSH approved dust respirator if PEL/TLV may be exceeded.

OTHER PROTECTIVE EQUIPMENT: Safety shower, eye wash

SECTION 9.

Appearance: Fine white powder.

Odor: Odorless.

pH: Neutral.

Melting Point/Freezing Point: 1975°C

Flash point: Not Applicable

Relative density: 5.61

Solubility: Insoluble in water

SECTION 10.

STABILITY AND REACTIVITY INCOMPATIBILITIES CONDITIONS TO AVOID: No materials present special reactivity hazards.

MATERIALS TO AVOID: Strong oxidizing agents

HAZARDOUS COMBUSTION PRODUCTS CO, CO₂, water

SECTION 11.

TOXICOLOGICAL INFORMATION ACUTE EFFECTS Most likely route of entry is through the skin. Full strength may be irritating to skin, mucous membranes and eyes.

THRESHOLD LIMIT VALUE (TLV): Not established
OSHA PERMISSABLE EXPOSURE LIMIT (PEL): Not established
LISTED AS CARCINOGEN BY NTP, IARC, OR OSHA? NO

SECTION 12.

ECOLOGICAL INFORMATION GENERAL

Prevent contamination of soil, ground- and surface water.

SECTION 13.

DISPOSAL CONSIDERATION WASTE DISPOSAL METHOD: Incineration or sanitary landfill in accordance with local, state, and federal regulations.

SECTION 14.

TRANSPORT INFORMATION Class Pack Group Sub. Risk UN No. IMDG Page Road(U.S.-DOT): UN 1169.

Air (IATA): not regulated. **Sea (IMDG):** not regulated.

SECTION 15.

REGULATORY INFORMATION EUROPEAN INFORMATION There were no toxicological studies in the published literature to assign risk and safety phrases.

REVIEWS, STANDARDS, AND REGULATIONS EPA TSCA SECTION 8(B) **CHEMICAL INVENTORY LISTED AS CARCINOGEN BY NTP, IARC, OR OSHA?** NO

SECTION 16.

This product is a 100% pure and natural product. It does not contain any artificial ingredients or adulteration of any kind to the best of our knowledge. The analysis and statements herein constitute the most complete information available to botanic Planet. Please refer to all relevant technical information specific to the product, prior to use. This information contained in this material safety Data sheet is obtained from current and reliable sources. As an ordinary or otherwise user(s) of this product is outside the control of Botanic Planet Canada Inc., no representation or warranty, expressed or implied is made as to the effect(s) of such use (s) (including damages or injury) or any obtained. Botanic Planet Canada Inc. expressly disclaims responsibility as to the ordinary or otherwise uses. Furthermore Botanic Planet Canada Inc. makes no claims as to the fitness for any use, and you should consider nothing container herein as a recommendation. The Liability of botanic Planet Canada Inc. is limited to the value of the goods and does not include any consequential loss. In the event of any dispute, the Customer hereby agrees that Jurisdiction is limited to the province of Ontario Canada.

Botanic Planet Canada Inc. 2 Bram Court, Unit # 3-4 Brampton, Ontario, L6W 3R6 Canada

Email:info@botanicplanet.ca www.botanicplanet.ca

COA

Product: Zinc Oxide (USP)
Botanical Name/INCI: Zinc Oxide, ZnO
Lot No: BPCZONN012023
Best Before: January, 2027
Origin: Canada

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
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Appearance: Fine white powder. Complies

Odor: Odorless. Complies

Solubility: Insoluble in water. Complies

Bulk Density: 35.0 - 45.0 lb/ft³ 40

Assay: 99.0 - 100.5% 100.4

Cadmium: 0.0 - 3.0 ppm 1.0

Lead: 0.0 - 9.5ppm 6.3

Arsenic: 0.0 - 6.0 ppm <6

Copper: 0.0 - 10.0 ppm 1.0

Iron: 0.0 - 10.0 ppm 1.0

Retained 325 mesh: 0.0 - 0.02 % 0.002

Mean Particle Size: 0.26 – 0.77 µm 0.54

Loss of Ignition: 0.0 - 1.0 % 0.12

Surface Area: 3.0 – 9.0 m²/g 4.3

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