



Canadian Agri Products(USA) Corp.

Chemicals to Trade, Experience to Remember

## Material Safety Data Sheet (MSDS)

### MAPLE ZINC OXIDE

<b>1. Identification of the substance</b>	Ingredient: ZINC OXIDE Synonyms: Zinc white; Chinese white; C.I. Pigment White 4; C.I. 77947. Molecular Formula: ZnO
<b>2. Composition /information on ingredients</b>	Ingredient: ZINC OXIDE CAS Number: 1314-13-2 EINECS/ELINCS: 2152225 Hazard Symbols: N
<b>3. Hazard Identification</b>	Emergency overview: May cause eye, skin, and respiratory tract irritation. Inhalation of fumes may cause metal-fume fever.  HMIS rating: Health: 1 Flammability: 0 Reactivity: 0  NFPA rating: Health: 1 Flammability: 0 Reactivity: 0  For additional information on toxicity, please refer to Section 11.
<b>4. First aid measure</b>	Oral exposure: If swallowed, wash out mouth with water provided person is conscious. Call a physician. Inhalation exposure: If inhaled, remove to fresh air. If breathing becomes difficult, call a physician. Dermal exposure: In case of contact, immediately wash skin with soap and copious amounts of water. Call a physician. Eye exposure: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.
<b>5. Fire fighting measures</b>	Flash point: N/A Auto ignition temp: N/A Flammability: N/A Extinguishing media: Substance is noncombustible; use agent most appropriate to extinguish surrounding fire



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	<p>Firefighting</p>	<p>Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Emits toxic fumes under fire conditions. Containers may explode in the heat of a fire. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. Contact with metals may evolve flammable hydrogen gas.</p>
<p><b>6. Accidental Release Measures</b></p>	<p>Procedure to be followed in case of leak or spill</p> <p>Procedure(s) of personal precaution(s)</p> <p>Methods for cleaning up</p>	<p>Evacuate area.</p> <p>Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.</p> <p>Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation</p>
<p><b>7. Handling and Storage</b></p>	<p><u>Handling</u></p> <p><u>Storage</u></p>	<p>User Exposure: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.</p>
<p><b>8. Exposure control/Personal Protection</b></p>	<p><u>Engineering controls</u></p> <p><u>Personal protective equipment</u></p> <p>Respiratory:</p> <p>Hand:</p> <p>Eye:</p> <p><u>General hygiene measures</u></p> <p><u>Exposure limits</u></p> <p><b>Chemical Name</b></p> <p><b>ACGIH</b></p> <p><b>NIOSH</b></p> <p><b>OSHA - Final PELs</b></p>	<p>Safety shower and eye bath required. Mechanical exhaust required.</p> <p>Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Compatible chemical-resistant gloves. Chemical safety goggles</p> <p>Wash thoroughly after handling. Wash clothing before reuse.</p> <p>Zinc oxide</p> <p>2 mg/m3 TWA (respirable fraction); 10 mg/m3 STEL (respirable fraction)</p> <p>5 mg/m3 TWA (dust and fume) 500 mg/m3 IDLH</p> <p>5 mg/m3 TWA (fume); 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)</p>



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<p><b>9. Physical /Chemistry Properties</b></p>	<p>Physical State: Solid            Color: White            Form: Powder            Molecular Weight: 81.39            Molecular Formula: ZnO            pH: N/A            Boiling Point: N/A            Freezing/Melting Point: 1975 °C            Flash Point: N/A            Decomposition Temperature: N/A            Autoignition Temperature: N/A            Vapor Pressure: N/A            Vapor Density: N/A            Saturated Vapor: N/A            Density: 5.6 g/ml            Bulk Density: N/A            Odor Threshold: N/A            Volatile: N/A            Evaporation Rate: N/A            Viscosity: N/A            Surface Tension: N/A            Partition Coefficient: N/A            Explosion Limits: N/A            Flammability: N/A            Refractive Index: N/A            Optical Rotation: N/A            Solubility: N/A            N/A = not available</p>
<p><b>10. Stability and Reactivity</b></p>	<p><b><u>Stability</u></b>            Stable: Stable.            Conditions to Avoid: Dust generation.            Materials to Avoid: Magnesium, chlorinated rubber.  <b><u>Hazardous decomposition products</u></b>            Hazardous Decomposition Products: Toxic fumes of zinc oxide  <b><u>Hazardous polymerization</u></b>            Hazardous Polymerization: Will not occur.</p>
<p><b>11.Toxicology Inofrmation</b></p>	<p><b><u>Route of exposure</u></b>            Skin Contact Causes skin irritation.            Skin Absorption: May be harmful if absorbed through the skin.            Eye Contact: Causes eye irritation.            Inhalation: Harmful if inhaled. May cause irritation of mucous membranes and upper respiratory tract.            Ingestion: Harmful if swallowed.  <b><u>Signs and symptoms of</u></b> To the best of our knowledge, the chemical, physical, and</p>



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	<p><b><u>exposure</u></b></p> <p><b><u>Toxicity data</u></b>          Oral          Inhalation</p> <p><b><u>Irritation data</u></b>          Rabbit, eye:          Rabbit, skin:</p>	<p>toxicological properties have not been thoroughly investigated.</p> <p>LD50: 7950 mg/kg (mouse)          LD50: 2500 mg/kg (mouse)</p> <p>500 mg/24H Mild          500 mg/24H Mild</p>
<p><b>12. Ecological Information</b></p>	<p>No data available.</p>	
<p><b>13. Disposal consideration</b></p>	<p><b><u>Appropriate method of disposal of substance or preparation</u></b></p>	<p>Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.          Observe all federal, state, and local environmental regulations.</p>
<p><b>14. Transport Information</b></p>	<p><b><u>DOT</u></b>          Proper Shipping Name:          Non-Hazardous for Transport:  <b><u>IATA</u></b>          Non-Hazardous for Air Transport:</p>	<p>None          This substance is considered to be non-hazardous for transport.</p> <p>Non-hazardous for air transport.</p>
<p><b>15. Regulatory Information</b></p>	<p><b><u>EU additional classification</u></b></p> <p><b><u>US classification and label text</u></b></p> <p><b><u>US regulatory information</u></b></p>	<p>Symbol of Danger: N          Indication of Danger: Dangerous for the environment.          R: 50/53          Risk Statements: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.          S: 60/61          Safety Statements: This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheets.</p> <p>Indication of Danger: Dangerous for the environment.          Risk Statements: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.          Safety Statements: This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheets.</p> <p>SARA listed: Yes          This material contains Zinc oxide (listed as Zinc compounds), &gt;99%, (CAS# 1314-13-2) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.          TSCA inventory item: Yes</p>



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**Canada regulatory information**

WHMIS classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes

NDSL: No

*THE INFORMATION IN THIS MSDS RELATES TO THIS SPECIFIC MATERIAL. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USERS' RESPONSIBILITY TO SATISFY THEMSELVES AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR THEIR OWN PARTICULAR USE.*

All non-emergency questions should be  
Directed to Customer Service at

**972-403-7444**

**24 hour emergency Telephone: Chemtrec 800-424-9300**

**National response in Canada: Canutec 613-996-6666**

**Outside US & Canada: Chemtrec: 202-483-7616**

Note: Chemtrec and Canutec emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, exposure or accident involving chemicals.