



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. ZZ 100  
Effective Date June 3, 1999

## SECTION V HEALTH HAZARD DATA

ZZ 100

**Threshold Limited Value** TWA Zinc Oxide (Fume) 5 mg/m<sup>3</sup>; STEL: 10 mg/m<sup>3</sup> (ACGIH 1992-93).  
Dust: TWA - Nuisance Particulate (30 mppcf) or 10 mg/m<sup>3</sup> of total dust.

**Effects of Overexposure** **TARGET ORGANS AFFECTED:** None.  
**INGESTION:** May cause nausea, vomiting, thirst and diarrhea. May cause eye irritation. Prolonged or repeated contact with skin may cause irritation.  
**INHALATION:** May cause metal fumer fever with symptoms of chills, metallic taste, chest tightness, nausea.

**Emergency and First Aid Procedures** **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.  
**EYES:** Flush thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink and induce vomiting. Call physician. Never give anything by mouth to an unconscious person. **SKIN:** Flush thoroughly with water, then wash with mild soap and water.

## SECTION VI REACTIVITY DATA

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>	Excessive temperature and heat.
	<b>Stable</b>	X		

**Incompatibility (Materials to Avoid)** Chlorinated rubber above 216°C, active metals, e.g., magnesium.

**Hazardous Decomposition Products** Sublimes when heated.

<b>Hazardous Polymerization</b>		<b>Conditions to Avoid</b>	Not applicable.
<b>May Occur</b>	<b>Will Not Occur</b>		
	X		

## SECTION VII SPILL OR LEAK PROCEDURES

**Steps to be taken in case material is released or spilled** Recover for use if not contaminated. Wear protective safety equipment and use adequate ventilation. Avoid making dust. Sweep up and place in a suitable container for disposal. Flush spill area with water. Do not allow wash water to pollute water ways and streams.

**Waste Disposal Method** Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.

Dispose of in a sanitary landfill or contract with a licensed waste disposal service.

## SECTION VIII SPECIAL PROTECTION INFORMATION

**Respiration Protection (Specify Type)** None should be needed in normal laboratory handling. If dusty conditions prevail, wear NIOSH/MSHA-approved dust mask or respirator.

<b>Ventilation</b>	<b>Local Exhaust</b>	Yes.	<b>Special</b>	No.
	<b>Mechanical (General)</b>	Recommended.	<b>Other</b>	No.

<b>Protective Gloves</b>	Rubber - may cause irritation on long exposure.	<b>Eye Protection</b>	Chemical safety glasses.
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**Other Protective Equipment** Eye wash station, goggles, ventilation hood, lab coat, proper gloves.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Store in a cool, dry, well-ventilated area. Wash thoroughly after handling.  
Keep container tightly closed when not in use.

**Other Precautions** Read label on container before using. Do not wear contact lenses when working with chemicals.

Avoid prolonged contact with skin. Avoid dusting conditions. Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

<b>Revision</b> No. 5	<b>Date</b> 6/3/99	<b>Approved</b> Michael Raszeja	<b>Chemical Safety Coordinator</b> MR
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The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. \* Hazardous Materials Industrial Standards. Printed on recycled paper.

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

<b>Product</b>	ZINC OXIDE	 <b>CHEMTREC</b> <b>800-424-9300</b> Day 716-226-6177  <b>NFPA HAZARD RATING</b> LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4  <b>HMIS *</b> Health 2 Fire 0 Reactivity 0
<b>Chemical Synonyms</b>	Zinc white; Chinese white	
<b>Formula</b>	ZnO	
<b>Unit Size</b>	up to 2.5 Kg.	
<b>C.A.S. No.</b>	1314-13-2	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Zinc Oxide: (CAS No. 1314-13-2)	> 99.9%	See Section V.

**WARNING! HARMFUL IF INHALED AS DUST OR FUME.**

## SECTION III PHYSICAL DATA

<b>Melting Point (°F)</b>	Sublimes @ 1975°C (3587°F)	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	5.1
<b>Boiling Point (°F)</b>	N/A	<b>Percent Volatile by Volume (%)</b>	N/A
<b>Vapor Pressure (mm Hg)</b>	N/A	<b>Evaporation Rate ( =1)</b>	N/A
<b>Vapor Density (Air=1)</b>	N/A		
<b>Solubility in Water</b>	Insoluble.		
<b>Appearance &amp; Odor</b>	White or yellowish-white powder; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	Non-flammable.	<b>Flammable Limits in Air % by Volume</b>	N/A	<b>Lower</b>	<b>Upper</b>
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**Extinguisher Media** Use any media suitable for extinguishing supporting fire.

### SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Use water spray to knock down fumes and dust.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products as fume or dust.

D.O.T. NON-REGULATED.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20