



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
Avon, New York 14414
(716) 226-6177

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/m³; STEL: 10 mg/m³ (ACGIH 1992-93).
Dust: TWA - Nuisance Particulate (30 mppcf) or 10 mg/m³ 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

Stability	Unstable	Stable	Conditions to Avoid
		X	Excessive temperature and heat.

Incompatibility (Materials to Avoid)	Chlorinated rubber above 216°C, active metals, e.g., magnesium.
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Hazardous Decomposition Products	Sublimes when heated.
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Hazardous Polymerization	Conditions to Avoid
May Occur	Will Not Occur
	X
Not applicable.	

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.
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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.
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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.			
Ventilation	Local Exhaust	Yes.	Special	No.
	Mechanical (General)	Recommended.	Other	No.
Protective Gloves	Rubber - may cause irritation on long exposure.		Eye Protection	Chemical safety glasses.
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.
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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.

Revision	No. 5	Date	6/3/99	Approved	Michael Raszeja	Chemical Safety Coordinator	MR
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SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	ZINC OXIDE
Chemical Synonyms	Zinc white; Chinese white
Formula	ZnO
Unit Size	up to 2.5 Kg.
C.A.S. No.	1314-13-2

0

1

0

CHEMTREC
800-424-9300
Day 716-226-6177

NFPA
HAZARD RATING
LEAST SLIGHT MODERATE
0 1 2

Health
2

Fire
0

Reactivity
0

HMIS *
HIGH EXTREME
3 4

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

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

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
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