



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. ZZ 107  
Effective Date June 3, 1999

## SECTION V HEALTH HAZARD DATA

ZZ 107

**Threshold Limited Value** TWA: Nuisance particulate (30 mppcf) or 10 mg/m<sup>3</sup> of total dust or 5 mg/m<sup>3</sup> respirable dust. STEL: 20 mg/m<sup>3</sup> (AIR). (ACGIH 1992-93).

**Effects of Overexposure** Systemic toxicity negligible. Inhalation may cause pneumonitis, respiratory congestion due to dust overexposure. Contact with skin and eyes may cause redness, irritation and pain. May cause gastrointestinal irritation if swallowed. Exercise appropriate procedures to minimize potential hazards.

**Emergency and First Aid Procedures**

**INHALATION:** Remove to fresh air. If ill effects develop, get medical attention. **EYES:** Flush thoroughly with water, lifting upper and lower eyelids occasionally. If irritation develops or persists, get medical attention. **SKIN:** Flush with water, then wash with mild soap and water. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink. Induce vomiting and get medical attention. Never give anything by mouth to an unconscious person.

## SECTION VI REACTIVITY DATA

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>	Keep away from sparks and flame.
	<b>Stable</b>	X		

**Incompatibility (Materials to Avoid)** Strong oxidizing materials.

**Hazardous Decomposition Products** Thermal decomposition or burning may produce carbon monoxide and/or carbon dioxide, zinc oxide.

<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** Carefully sweep up without producing dust and place in a suitable container for disposal. Wash spill area with soap and water.

**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 an approved incinerator or contract with a licensed disposal service.

## SECTION VIII SPECIAL PROTECTION INFORMATION

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

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

<b>Protective Gloves</b>	Rubber.	<b>Eye Protection</b>	Chemical safety glasses.
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**Other Protective Equipment** Eye wash station, lab coat, goggles, ventilation hood.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Store in a cool, dry place away from strong oxidizing materials and fire hazards. 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 or repeated contact with skin. 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. 4	<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 STEARATE	 <p>CHEMTREC 800-424-9300 Day 716-226-6177</p> <p>NFPA HAZARD RATING</p> <table border="1"> <tr> <td>LEAST</td> <td>SLIGHT</td> <td>MODERATE</td> <td>HIGH</td> <td>EXTREME</td> </tr> <tr> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table> <p>HMIS *</p> <table border="1"> <tr> <td>Health</td> <td>1</td> </tr> <tr> <td>Fire</td> <td>1</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4	Health	1	Fire	1	Reactivity	0
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<b>Chemical Synonyms</b>	Octadecanoic Acid Zinc Salt																	
<b>Formula</b>	Zn(C <sub>18</sub> H <sub>35</sub> O <sub>2</sub> ) <sub>2</sub>																	
<b>Unit Size</b>	up to 2.5 Kg.																	
<b>C.A.S. No.</b>	557-05-1																	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Zinc Stearate	86%	See Section V.
Zinc Oxide	Approx. 14%	See Section V.

**CAUTION! MAY FORM COMBUSTIBLE DUST CONCENTRATION**

**IN AIR. NUISANCE DUST. DO NOT BREATHE DUST.**

## SECTION III PHYSICAL DATA

<b>Melting Point (°F)</b>	130°C (266°F)	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	1.095 at 20°C
<b>Boiling Point (°F)</b>	None listed.	<b>Percent Volatile by Volume (%)</b>	N/A
<b>Vapor Pressure (mm Hg)</b>	Negligible as solid.	<b>Evaporation Rate ( =1)</b>	N/A
<b>Vapor Density (Air=1)</b>	Not applicable.		
<b>Solubility in Water</b>	Insoluble.		
<b>Appearance &amp; Odor</b>	Fine white powder; faint fatty acid odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	530°F (277°C) oc	<b>Flammable Limits in Air % by Volume</b>	N/A	<b>Lower</b>	<b>Upper</b>
<b>Extinguisher Media</b>	Water spray; foam; carbon dioxide (CO <sub>2</sub> ); dry chemical.				

### 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.

Ignition Temperature: 788°F (420°C).

### UNUSUAL FIRE AND EXPLOSION HAZARDS

When heated to decomposition it emits fumes of zinc oxide. This material as dust in sufficient quantity is capable of creating a dust explosion. May react vigorously with oxidizing materials.

D.O.T. NON-REGULATED.

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