



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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

MSDS No. ZZ 125
Effective Date June 3, 1999

SECTION V HEALTH HAZARD DATA

ZZ 125

Threshold Limited Value

Zinc Sulfide (approx. 65.7% Zn): OSHA PEL 15 mg/m³, ACGIH TLV 15 mg/m³ total dust.
Barium Sulfate (approx. 0.6% Ba): OSHA PEL 10 mg/m³, ACGIH TLV 10 mg/m³ total dust.

Effects of Overexposure

Target organs affected: None. The toxicity of Zinc Sulfide has not been quantified. Zinc Sulfide may irritate the skin, eyes, and mucous membranes. Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures

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

SECTION VI REACTIVITY DATA

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| Stability | Unstable | Conditions to Avoid | Excessive temperature and heat. Moisture sensitive. |
| | Stable | | |

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| Incompatibility (Materials to Avoid) | Strong acids, Iodine monochloride. |
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| Hazardous Decomposition Products | Decomposition may release toxic fumes of Zinc Oxide or toxic oxides of Sulfur and Hydrogen Sulfide (H ₂ S). |
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| Hazardous Polymerization | | Conditions to Avoid | Contact with strong mineral acids. |
| May Occur | Will Not Occur | | |

SECTION VII SPILL OR LEAK PROCEDURES

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| Steps to be taken in case material is released or spilled | Sweep up and place in a suitable container for proper disposal. Flush spill area with water. Avoid dust accumulation. |
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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 an approved chemical landfill or contract with a licensed waste disposal service. | | |

SECTION VIII SPECIAL PROTECTION INFORMATION

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|---------------------------------------|---|----------------|----------------|--------------------------|
| Respiration Protection (Specify Type) | None needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator. | | | |
| | Local Exhaust | Yes, if dusty. | Special | No. |
| Ventilation | Mechanical (General) | | Other | No. |
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| Protective Gloves | Rubber. | | Eye Protection | Chemical safety glasses. |

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| Other Protective Equipment | Lab coat, apron, eye wash station, proper gloves, ventilation hood. |
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SECTION IX SPECIAL PRECAUTIONS

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| Precautions to be Taken in Handling & Storing | Keep container closed and away from acids, combustible material and heat. Wash thoroughly after handling. |
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Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals.

Avoid breathing dust. Remove and wash contaminated clothing.

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

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| Revision No. 4 | Date 6/3/99 | Approved Michael Raszeja | Chemical Safety Coordinator | MR |
|----------------|-------------|--------------------------|-----------------------------|----|

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

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|-------------------|---------------|--|
| Product | ZINC SULFIDE | <div><div><div>0</div><div>1</div><div>0</div></div><div>CHEMTREC 800-424-9300 Day 716-226-6177</div><div>NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4</div><div>HMIS * 3 4</div></div> |
| Chemical Synonyms | Sachtolith | |
| Formula | ZnS | |
| Unit Size | up to 2.5 Kg. | |
| C.A.S. No. | 1314-98-3 | |

SECTION II INGREDIENTS OF MIXTURES

| Principal Component(s) | % | TLV Units |
|-------------------------------------|--------------|-------------------|
| Zinc Sulfide: (CAS No. 1314-98-3) | 98.0-100% | None established. |
| Barium Sulfate: (CAS No. 7727-43-7) | (Approx.) 1% | None established. |

WARNING! MAY BE HARMFUL IF SWALLOWED. MAY CAUSE IRRITATION TO SKIN, EYES, AND MUCOUS MEMBRANES. CONTACT WITH ACID LIBERATES POISONOUS AND FLAMMABLE GAS.

SECTION III PHYSICAL DATA

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| Melting Point (°F) | Not applicable. | Specific Gravity (H ₂ O = 1) | 4.0 |
| Boiling Point (°F) | Not applicable. | Percent Volatile by Volume (%) | Non-volatile (NA). |
| Vapor Pressure (mm Hg) | Negligible as solid. | Evaporation Rate (≈1) | Non-volatile (NA). |
| Vapor Density (Air=1) | Not applicable. | | |
| Solubility in Water | Insoluble. | | |
| Appearance & Odor | White powder; odorless. | | |

SECTION IV FIRE AND EXPLOSION HAZARD DATA

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| Flash Point (Method Used) | Non-flammable (NA). | Flammable Limits in Air % by Volume | NA | Lower | Upper |
| | | | | ----- | ----- |
| Extinguisher Media | Use any media suitable for extinguishing supporting fire. | | | | |

SPECIAL FIREFIGHTING PROCEDURES

If involved in fire situation, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing. Use flooding amounts of water in early stages of fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS

If involved in fire from other sources, sulfur dioxide (SO₂) and hydrogen sulfide a toxic gas may be generated. Use protective equipment against acidic gases.

D.O.T. NON-REGULATED.

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