

# FLINN SCIENTIFIC, INC.

## Material Safety Data Sheet (MSDS)

MSDS #: 865.00

Revision Date: September 27, 2010

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Zinc Stearate

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261  
CHEMTREC Emergency Phone Number: (800) 424-9300

### SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS

Zinc Stearate  
Synonym: octadecanoic acid, zinc salt  
CAS#: 557-05-1

### SECTION 3 — HAZARDS IDENTIFICATION

White powder. Faint odor - like new leather.  
Dust may be irritating to mucous membranes. Avoid inhalation.

#### FLINN AT-A-GLANCE

Health-0  
Flammability-1  
Reactivity-0  
Exposure-1  
Storage-0

0 is low hazard, 3 is high hazard

### SECTION 4 — FIRST AID MEASURES

Call a physician, seek medical attention for further treatment, observation and support after first aid.  
Inhalation: Remove to fresh air at once. If breathing has stopped give artificial respiration immediately.  
Eye: Immediately flush with fresh water for 15 minutes.  
External: Wash continuously with fresh water for 15 minutes.  
Internal: Give large quantities of water. Call a physician or poison control at once.

### SECTION 5 — FIRE FIGHTING MEASURES

Combustible solid.  
Autoignition Temperature: 1454 °F  
When heated to decomposition, emits toxic fumes of ZnO.  
**Fire Fighting Instructions:** Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

#### NFPA CODE

H-0  
F-1  
R-0

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from area. Remove all ignition sources and water. Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

### SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #2. Store with acetates, halides, sulfates, sulfites, thiosulfates and phosphates. Store in a cool, dry place. Use and dispense in a hood.

### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire).  
Exposure guidelines: TWA 15 mg/m<sup>3</sup> (OSHA)

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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White powder. Faint odor - like new leather.

Specific Gravity: 1.095

Solubility: Acids and some common hot solvents. Not water.

Melting Point: 130 C

Formula: C<sub>36</sub>H<sub>70</sub>O<sub>4</sub>ZnFormula Weight: 632.33

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**SECTION 10 — STABILITY AND REACTIVITY**

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Avoid contact with strong oxidizers and strong acids.

Shelf Life: Indefinite.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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Acute effects: Harmful dust, lung irritation, chest pain and edema which may be fatal

ORL-RAT LD50: N.A.

Chronic effects: Chemical pneumonitis

IHL-RAT LC50: N.A.

Target organs: N.A.

SKN-RBT LD50: N.A.

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N.A. = Not available, not all health aspects of this substance have been fully investigated.

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**SECTION 12 — ECOLOGICAL INFORMATION**

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Data not yet available.

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**SECTION 13 — DISPOSAL CONSIDERATIONS**

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Please consult with state and local regulations.

Flinn Suggested Disposal Method #26a is one option.

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**SECTION 14 — TRANSPORT INFORMATION**

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Shipping Name: Not regulated

Hazard Class: N/A

UN Number: N/A

N/A = Not applicable

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**SECTION 15 — REGULATORY INFORMATION**

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TSCA-listed, EINECS-listed (209-151-9).

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**SECTION 16 — OTHER INFORMATION**

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**Consult your copy of the *Flinn Science Catalog/Reference Manual*  
for additional information about laboratory chemicals.**

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