





# MATERIAL SAFETY DATA SHEET

## ZINC STEARATE ED HS POWDER

Version:	1
Date Of Issue:	02/29/2008
Date Printed:	05/14/2008

Zinc hydroxide  
CAS# 20427-58-1

< 1.5

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### 4. FIRST AID MEASURES

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#### Swallowing

No emergency care anticipated.

#### Inhalation

Remove to fresh air.

#### Skin contact

Wash skin with soap and water.

#### Eye contact

Flush eyes thoroughly with water for several minutes. Obtain medical attention if discomfort persists.

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### 5. FIRE-FIGHTING MEASURES

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Flash point:            451 °F            233 °C

#### Hazardous combustion products

Carbon monoxide.  
Carbon dioxide.

#### Special fire fighting procedures

Do not direct a solid stream of water or foam into burning molten material; this may cause spattering and spread the fire.

#### Special protective equipment for firefighters

Firefighters must be equipped to prevent breathing of vapors or products of combustion. Wear an approved self-contained breathing apparatus and protective clothing.

#### Extinguishing media

Suitable:            Extinguish with:  
                         - dry chemical  
                         - water spray  
                         - CO2  
                         - foam

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### 6. ACCIDENTAL RELEASE MEASURES

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#### Environmental precautions

This product is insoluble in water and will float on the surface.

#### Methods for cleaning up

Avoid dispersion of dust.  
Eliminate sources of ignition.  
Sweep up and collect in a suitable container for disposal.  
Sweep up using non-sparking equipment.  
Observe government regulations.



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### 7. HANDLING AND STORAGE

#### HANDLING

##### Handling precautions

Avoid dispersion of dust to reduce fire and explosion potential.

#### STORAGE

##### Storage requirements

Store at ambient temperature., Keep drums tightly closed to prevent contamination.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### EXPOSURE LIMIT VALUES

<u>Component</u>	<u>Country</u>	<u>Type</u>	<u>Value</u>	<u>Remark</u>
Zinc stearate	USA	TWA, OSHA	15 mg/m <sup>3</sup>	Total dust
		TWA-TLV, ACGIH	10 mg/m <sup>3</sup>	
		PEL-TWA, OSHA	5 mg/m <sup>3</sup>	Respirable fraction
Octadecanoic acid		PEL, OSHA	5 mg/m <sup>3</sup>	Respirable dust
		PEL, OSHA	15 mg/m <sup>3</sup>	Total dust
		TWA, ACGIH	10 mg/m <sup>3</sup>	Total dust for nuisance particulates

  

<u>Component</u>	<u>Type</u>	<u>Value</u>	<u>Remark</u>
Particulates not otherwise regulated	TWA, OSHA	15.0 mg/m <sup>3</sup>	Total dust
	TWA, OSHA	5.0 mg/m <sup>3</sup>	Respirable fraction
	TWA - ACGIH	10.0 mg/m <sup>3</sup>	Total inhalable dust
	TWA - ACGIH	3.0 mg/m <sup>3</sup>	Respirable fraction

#### PERSONAL PROTECTION

##### Respiratory protection

Use NIOSH/MSMA certified dust mask and/or respirator where appropriate.

##### Hand protection / protective gloves

Neoprene

##### Eye protection

Monogoggles



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### Skin protection

Rubber or plastic apron

### ENGINEERING CONTROLS

#### Ventilation

Adequate ventilation to keep dust level below TLV.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### APPEARANCE

Physical state	Powder
Color	White
Odor	Slight fatty

### OTHER PROPERTIES

Boiling point	Decomposes
Melting point	120 °C 248 °F
Vapor pressure	
Solubility in water	Insoluble
Flash point	451 °F 233 °C Method: Cleveland open cup ASTM D 92
Percent volatiles	< 1 %(m)

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## 10. STABILITY AND REACTIVITY

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**Stability:** Stable.

### **Stability - Conditions to avoid:**

Stable under normal conditions.

### **Incompatible materials:**

Strong oxidizing agents.

### **Hazardous combustion products:**

Carbon monoxide.  
Carbon dioxide.

**Hazardous polymerization:** Will not occur.



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### 11. TOXICOLOGICAL INFORMATION

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#### SWALLOWING

Acute effects  
Low acute toxicity.

#### SKIN ABSORPTION

Acute effects  
Low acute toxicity.

#### INHALATION

Acute effects  
Dust may cause irritation of the respiratory tract.

#### SKIN CONTACT

Acute effects  
May cause slight irritation.

#### Test results

Skin irritation: Species: Rabbit  
Exposure time: 24 h  
Result: Very slight erythema / edema  
Classification: Not irritant  
Remark: Occluded

#### EYE CONTACT

Acute effects  
May cause slight irritation.

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### 12. ECOLOGICAL INFORMATION

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Not expected to be acutely toxic to aquatic organisms.

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### 13. DISPOSAL CONSIDERATIONS

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**General:** It is our opinion this product is not a RCRA hazardous waste. It is the generator's responsibility to make their own determination as to the RCRA status of waste they generate. We have not performed a Toxicity Characteristic Leachate Procedure (TCLP) on this product., Incinerate in a furnace where permitted under appropriate Federal, State, and local regulations.

#### Non-cleaned packages

Subject completely emptied paper bags to paper recycling.

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### 14. TRANSPORT INFORMATION

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#### DOT Classification

This product is not regulated by DOT.



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### IMDG Classification

This product is not regulated by IMDG.

### ICAO Classification

This product is not regulated by ICAO.

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## 15. REGULATORY INFORMATION

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Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RO's) in 40CFR302.4.

Components present in this product at a level which could require reporting under the statute are:

\*\*\*\* NONE \*\*\*\*

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPO's) and release reporting based on Reportable Quantities (RO's) in 40CFR355 (used for SARA 302 and 304).

Components present in this product at a level which could require reporting under the statute are:

\*\*\*\* NONE \*\*\*\*

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40CFR372 (for SARA 313). This information must be included in MSDS's that are copied and distributed for this material.

Components present in this product at a level which could require reporting under the statute are:

Chemical name	CAS#	Max weight %
Zinc stearate	557-05-1	>97.00
Zinc hydroxide	20427-58-1	< 1.50

Pennsylvania Right-To-Know Hazardous Substance List--Hazardous Substances and Special Hazardous Substances on the list must be identified when present in products.

Components present in this product at a level which could require reporting under the statute are:

Chemical name	CAS#	Max weight %
Zinc stearate	557-05-1	
Zinc hydroxide	20427-58-1	

### New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)

Chemical name	CAS#	New Jersey TS Number
Zinc stearate	557-05-1	
Octadecanoic acid	57-11-4	
Zinc hydroxide	20427-58-1	

EPA Hazard Categories (SARA 311, 312):

None

### CHEMICAL INVENTORY

<u>Canada:</u>	This product is on the DSL.
<u>Europe:</u>	This product is on the EINECS inventory. 209-151-9
<u>United States:</u>	This product is on the TSCA inventory.
<u>Australia:</u>	This product is on the AICS inventory.
<u>China:</u>	The ingredients of this product are on the IECSC inventory.



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**Japan:** This product is on the ENCS inventory.  
**Korea:** This product is listed on the Existing Chemicals List (ECL).  
**Philippines:** This product is on the PICCS.

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### 16. OTHER INFORMATION

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#### HMIS RATING

<b>Health: 0</b>	<b>Flammability: 1</b>	<b>Reactivity: 0</b>	<b>PPI:</b>
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STP	Standard temperature and pressure
W/W	Weight/Weight
0 (HMIS)	0 (HMIS)
1 (HMIS)	Slight hazard
2 (HMIS)	Moderate hazard
3 (HMIS)	Serious hazard
4 (HMIS)	Severe hazard
X (HMIS)	Personal protection rating to be supplied by user depending on use conditions

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