

## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name	Zinc Stearate
CAS number	557-05-100
Synonyms	Zinc distearate

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Laboratory Chemicals
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#### 1.3 Details of the supplier of the safety data sheet

Company	Lab Alley, LLC 12501 Pauls Valley Road Austin, Texas 78737 U.S.A.
Telephone	512-668-9918
Fax	512-886-4008

#### 1.4 Emergency telephone

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**  
Combustible dust

#### 2.2 GHS Label elements, including precautionary statements

Pictogram	None required.
Signal Word	Warning
Hazard statements	May form combustible dust concentrations in air.
Precautionary statements	Store in a well-ventilated place. Keep container tightly closed.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified.

## SECTION 3: Composition/information on ingredients

### 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Zinc Stearate	Zinc distearate	557-05-100	> 98%

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

#### General advice

<b>If inhaled</b>	Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.
<b>In case of skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
<b>In case of eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
<b>If swallowed</b>	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

### 4.2 Most important symptoms and effects, both acute and delayed

None reasonably foreseeable.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** Water spray. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Chemical foam.

**Unsuitable extinguishing media** No information available

## 5.2 Specific hazards arising from the substance or mixture

Dust can form an explosive mixture with air. Thermal decomposition can lead to release of irritating gases and vapors. Fine dust dispersed in air may ignite.

## 5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 5.4 Further information

**Flash Point** > 100 °C / > 212 °F

**Autoignition Temperature** 371 °C / 699.8 °F

### Explosion limits

**Upper** No data available

**Lower** 30%

**Sensitivity to Mechanical Impact** No information available

**Sensitivity to Static Discharge** No information available

### NFPA

Health	Flammability	Instability	Physical hazards
1	2	0	Not listed

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

### 6.2 Environmental precautions

Should not be released into the environment. See Section 12 for additional Ecological Information. Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system.

### 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

### 6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements.

## SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

## 7.2 Conditions for safe storage, including any incompatibilities

### Storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

### Incompatibilities

Strong oxidizing agents. Strong acids.

## SECTION 8: Exposure controls/personal protection

## 8.1 Occupational exposure limits

### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Type	Value
Zinc Stearate	TWA	15 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>

### US. ACGIH Threshold Limit Values

Component	Type	Value
Zinc Stearate	STEL	10 mg/m <sup>3</sup> 3 mg/m <sup>3</sup>

### US. NIOSH: Pocket Guide to Chemical Hazards

Component	Type	Value
Zinc Stearate	STEL	10 mg/m <sup>3</sup> 3 mg/m <sup>3</sup>

### Biological occupational exposure limits

No information available.

## 8.2 Exposure controls

### Appropriate engineering controls

None under normal use conditions.

### Personal protective equipment

#### Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

#### **Skin protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### **Body Protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### **Respiratory protection**

No protective equipment is needed under normal use conditions.

#### **Control of environmental exposure**

Do not let product enter the drains.

## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

Physical State	Solid
Appearance	White
Odor	No information available.
Odor Threshold	No information available.
pH	No information available.
Melting Point/Range	118 - 128 °C / 244.4 - 262.4 °F
Boiling Point/Range	No information available.
Evaporation Rate	Not applicable.
Flammability (solid)	No information available.
Flammability or explosive limit	No information available.
Upper	No information available.
Lower	30%
Vapor Pressure	Not applicable.
Vapor Density	No information available.
Density	No information available.
Solubility	Insoluble in water.
Partition coefficient; n-octanol/water	No information available.
Autoignition Temp	371 °C / 699.8 °F
Decomposition Temp	No information available.
Viscosity	Not applicable.
Molecular Formula	C <sub>36</sub> H <sub>70</sub> O <sub>4</sub> Zn
Molecular Weight	632.34
VOC Content(%)	No information available.
Oxidizing properties	No information available.

## 9.2 Other safety information

No information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None known, based on information available

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

None under normal processing.

### 10.4 Conditions to avoid

Incompatible products.

### 10.5 Incompatible materials

Strong oxidizing agents. Strong acids.

### 10.6 Hazardous decomposition products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Zinc, Metal oxides

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Product Information, Component Information

##### Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Zinc Stearate	> 5000 mg/kg (rat)	> 2000 mg/kg (rabbit)	> 200 mg/L (rat)

##### Skin corrosion/irritation

May cause irritation.

##### Serious eye damage/eye irritation

May cause irritation.

##### Respiratory or skin sensitization

No information available

##### Germ cell mutagenicity

No information available

**Carcinogenicity**

Not listed as by IARC, NTP, ACGIH, OSHA, and Mexico

**Specific target organ toxicity - single exposure**

None known.

**Specific target organ toxicity - repeated exposure**

None known.

**Reproductive toxicity**

No information available

**Chronic effects**

No information available

**11.2 Additional Information**

The toxicological properties have not been fully investigated.

**SECTION 12: Ecological information****12.1 Toxicity**

May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

**12.2 Persistence and degradability**

May persist

**12.3 Bio accumulative potential**

No information available.

**12.4 Mobility in soil**

Is not likely mobile in the environment due to its low water solubility.

**12.5 Results of PBT and vPvB assessment**

No information available.

**12.6 Endocrine disrupting properties**

No information available.

**12.7 Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**

### 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

#### SECTION 14: Transport information

<b>DOT (US)</b>	Not regulated
<b>IMDG</b>	Not regulated
<b>IATA</b>	Not regulated

#### SECTION 15: Regulatory information

##### US federal regulations

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**  
Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)**  
Not listed.

**SARA 304 Emergency release notification**  
Not listed.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**  
Not listed.

##### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**SARA 302 Extremely hazardous substance**  
Not listed.

**SARA 311/312 Hazardous**  
See section 2 for more information.

**SARA 313 (TRI reporting)**  
Regulated. Weight: > 95%; Threshold value: 1.0%

##### Other federal regulations

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**  
Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**



Not regulated.

**Safe Drinking Water Act**

Not regulated.

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Not listed.

**US state regulations**

**US. Massachusetts RTK - Substance List**

Listed.

**US. New Jersey Worker and Community Right-to-Know Act**

Listed.

**US. Pennsylvania Worker and Community Right-to-Know Law**

Listed.

**California Proposition 65**

Not listed.

**SECTION 16: Other information**

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**SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.