

**Material Safety Data Sheet****ZINC STEARATE****Section 1 - Product Identification**

Product Name : Zinc Stearate  
CAS No. : 557-05-1  
Synonym : Zinc distearate.  
Company Identification : Tradeasia International Pte. Limited  
Address :  
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**Section 2 – Composition/Information on Ingredients****Substances**

Name of substance	Zinc Stearate
Identifiers	
CAS No	557-05-1
Molecular formula	$\text{Zn}(\text{C}_{18}\text{H}_{35}\text{O}_2)_2$
Molar Mass	632.3 g/mol

**Section 3 – Hazardous Ingredients & Occupational Exposure Limits****Classification of the substances or mixture**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Label Elements****GHS Label elements, including precautionary statements**

Hazard Pictogram(s): None

Signal Word: None

**Hazard Statements:**

The substance does not meet the criteria for classification.

**Precautionary Statements**

The substance does not meet the criteria for classification.

**Hazards Not Otherwise Classified:** None known

**Section 4 – First-Aid Measures**

**Inhalation:** Remove to fresh air.

**Eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Skin Contact:** Wash skin with soap and water.

**Ingestion:** Clean mouth with water and drink afterwards plenty of water.

**Notes to physician:** No specific treatment. Treat symptomatically.

## Section 5 – Employee Protection

**Suitable extinguishing media:** Water fog. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media:** Do not use water jet as extinguisher, as this will spread the fire.

**Special hazards arising from the substance or mixture:** During fire, gases hazardous to health may be formed.

**Special protective equipment and Precautions for firefighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Fire-Fighting equipment /instructions:** Move containers from fire area if you can do so without risk.

**Specific methods:** Use standard firefighting procedures and consider the hazards of other involved materials.

**Further information:** Use water spray to cool unopened containers.

## Section 6 – Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures:** Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Avoid inhalation of dust from the spilled material. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**Environmental Precautions:** Avoid discharge into drains, water courses or onto the ground.

**Methods and Materials for Containment and Cleaning up:** The product is immiscible with water and will sediment in water systems. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Minimize dust generation and accumulation. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

## Section 7 – Handling and Storage

### Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

### Conditions for safe storage, including any incompatibilities

Store in original container. Store in a well-ventilated place. Store away from incompatible materials. Store in a cool, dry, ventilated area. Keep containers.

## Section 8 – Exposure Controls/Personal Protection (later)

### Exposure Limits/Guidelines:

Chemical Name: Zinc Stearate 557-05-1

OSHA PEL: 15 mg/m<sup>3</sup> TWA, 5 mg/m<sup>3</sup> TWA

**Engineering controls:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. If engineering measures are not sufficient to maintain concentration of dust particulates below the Occupational Exposure limit (OEL), suitable respiratory protection must be worn.

### Personal Protective Equipment

**Eye/face protection:** Use tight fitting goggles if dust is generated.

**Skin and 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:** No data available

## Section 9 – Physical and Chemical Properties

### Information on basic physical and chemical properties

Physical state : Solid

Molecular mass : 632.33 g/mol

Colour : White powder.

Odour : odourless.

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point : 128 - 130 °C

Freezing point : No data available

Boiling point : No data available

Flash point : 277 °C

Auto-ignition temperature : 790 °C

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Relative density : No data available

Density : 1.095 g/cm<sup>3</sup>

Solubility : Water: Insoluble in water

Log Pow : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : No data available

### Other data

No data available

## Section 10 – Stability and Reactivity

**Reactivity:** The product is stable and non-reactive under normal conditions. of use, storage and transport..

**Chemical Stability:** This product is stable under normal conditions.

**Conditions to Avoid:** Avoid temperatures exceeding the flash point. Contact with incompatible materials. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

**Incompatible Materials:** Strong oxidizing agents, Strong acids

**Hazardous Decomposition Products:** Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Zinc, Metal oxides

**Hazardous polymerization:** No data available

**Hazardous Reactions:** No data available

## Section 11 – Toxicological Information

### Acute toxicity:

Oral LD50 > 10 g/kg ( Rat )

Dermal LD50 > 2000 mg/kg ( Rabbit )

Inhalation LC50 > 200 mg/L ( Rat ) 1 h

**Skin corrosion/irritation:** Prolonged skin contact may cause temporary irritation.

**Serious eye damage/irritation:** Dust in the eyes will cause irritation.

**Carcinogenicity:** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**Reproductive toxicity:** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity following single exposure:** No data available

**Specific target organ toxicity following repeated exposure:** No data available

**Aspiration hazard:** No data available

### Information on likely routes of exposure

**Ingestion:** Expected to be a low ingestion hazard.

**Inhalation:** Prolonged inhalation may be harmful. Inhalation of dusts may cause respiratory irritation.

**Skin contact:** No adverse effects due to skin contact are expected.

**Eye contact:** Dust in the eyes will cause irritation

**Symptoms related to the physical, chemical and toxicological characteristics:** Coughing. Upper respiratory tract irritation. Irritation of eyes and mucous membranes. Skin irritation.

**Interaction with Other Chemicals Which Enhance Toxicity:** None known.

**Additional Information RTECS:** No data available

## Section 12 – Ecological Information

**Toxicity:** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Persistence and degradability:** No data is available on the degradability of this product

**Bioaccumulative potential:** No data available

**Mobility in soil:** Is not likely mobile in the environment due its low water solubility

**Results of PBT and vPvB assessment:** No data available

**Other adverse effects:** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## Section 13 – Disposal Considerations

### Waste from residues /unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner

### Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

## Section 14 – Transport Information

**In accordance with ADR / RID / IMDG / IATA / AND:**

Not regulated

**Additional Information:**

No data available

## Section 15 – Regulatory Information

### 1. US Federal regulations

All components are on the U.S. EPA TSCA Inventory List.

**SARA 313:** Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### 2. International regulations

Cas # 557-05-1 I listed in Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

### 3. National regulations

#### Germany

Reference to AwSV: Water hazard class (WGK) 1, low hazard to water (Classification according to AwSV; ID No. 5173)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

#### Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

### 4. US State regulations

#### ZINC STEARATE

State or local regulations	U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. – Rhode Island - Right To Know List
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## Section 16 - Additional Information

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**References:** Not available.

**Other Special Considerations:** Not available.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall Tradeasia International Pte. Ltd. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Tradeasia International Pte. Ltd. has been advised of the possibility of such damages.