

# SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** : Zinc Stearate Suspension  
**Chemical name** : Fatty acids, zinc salts  
**Chemical family** : Fatty acid salts  
**Manufacturer's code** : SAK-LZS (all grades)  
**Use** : Lubricant

**Manufacturer** : SUN ACE KAKOH (PTE.) LTD.  
**Address** : 34 TANJONG PENJURU, JURONG TOWN  
SINGAPORE 609030  
**Telephone** : (65) – 6264-0255  
**Contact person** : Chemists (Technical Department)

## 2. HAZARDS IDENTIFICATION

### GHS classification

#### Physical hazards

Explosives, Flammable gases, Flammable aerosols, Oxidising gases, Gases under pressure, Flammable liquids, Self-reactive substances and mixtures, Pyrophoric liquids, Oxidising liquids, Organic peroxides - Not applicable

Flammable solids, Pyrophoric solids, Self-heating substances and mixtures, Substances and mixtures which, in contact with water, emit flammable gases, Oxidising solids - Not classified

Corrosive to metals - Classification not possible

#### Health hazards

Acute toxicity (Oral) : Classification not possible  
Acute toxicity (Dermal) : Classification not possible  
Acute toxicity (Inhalation : Gases) : Not applicable  
Acute toxicity (Inhalation : Vapours) : Classification not possible  
Acute toxicity (Inhalation : Dusts) : Not classified  
Acute toxicity (Inhalation : Mists) : Not applicable  
Skin corrosion / irritation : Classification not possible  
Serious eye damage / eye irritation : Classification not possible  
Respiratory sensitisation : Classification not possible  
Skin sensitization : Classification not possible  
Germ cell mutagenicity : Classification not possible  
Carcinogenicity : Classification not possible  
Reproductive toxicity : Classification not possible  
Specific target organ toxicity – Single exposure : Classification not possible  
Specific target organ toxicity - Repeated exposure : Classification not possible

**Environmental hazards**

Aspiration hazard	: Classification not possible
Acute toxicity to the aquatic Environment	: Classification not possible
Chronic toxicity to the aquatic Environment	: Classification not possible

---

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

---

<u>Chemical name</u>	<u>Common name</u>	<u>CAS. No.</u>	<u>Content (%)</u>
Fatty acids, Zinc salts	Zinc stearate	557-05-1 / 91051-01-3	> 35
Water	Water		> 50

---

**4. FIRST AID MEASURES**

---

Eye contact	: Wash thoroughly with running clean water. Get medical advice if irritation develops.
Skin contact	: Wash with clean water
Inhalation	: Remove to fresh air. Get medical attention for any breathing difficulty.
Ingestion	: Seek medical advice
Acute and delayed symptoms	: The available information indicates that calcium stearate is generally non-toxic.
First aid and notes for physicians	: Zinc stearate practically is of low toxicity

---

**5. FIRE FIGHTING MEASURES**

---

Suitable extinguishing media	: Carbon dioxide, dry chemical powder, alcohol foam, water spray. Water or foam may cause frothing.
Unsuitable extinguishing media	: Water jet
Specific hazards arising from the chemical	: Carbon monoxide, carbon dioxide and zinc oxides
Specific protective equipment and precautions for fire-fighters	: In the event of a fire, wear full protective clothing and approved self-contained breathing apparatus. Fight fire from a safe distance or a protected location. Under certain conditions, a dust cloud of calcium stearate can explode when ignited by a spark, flame or other ignition source. Must avoid generating dust to minimise risk of explosion.

---

**6. ACCIDENTAL RELEASE MEASURES**

---

Personal protective equipment	: Eye - Wear appropriate protective safety glasses Skin – Wear appropriate protective gloves and clothing
-------------------------------	--

<b>Containment procedure</b>	Put on an appropriate respirator : Keep unnecessary personnel away. Eliminates all sources of ignition. Do not allow the spilled product to enter sewers or open waterways.
<b>Clean-up procedure</b>	: Avoid the generation of dust during the clean-up. Vacuum spills or cover with damp sand or saw-dust if sweep.

---

## 7. HANDLING AND STORAGE

---

<b>Safe handling procedure</b>	: Open packaging bag carefully, avoid spillage and dust formation and control ignition sources. Use this product with adequate ventilation. Wash hand after handling.
<b>Storage</b>	: Store in cool, dry place to avoid the effects of heat and moisture. Keep container tightly closed and properly labeled. Avoid exposure to sunlight, heat and spark. Ground all equipment containing material.

---

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

---

<b>Exposure limit</b>	: 10mg/m <sup>3</sup> (TWA 1992-93)
<b>Engineering controls</b>	: General room ventilation plus local exhaust at points of emission to maintain levels of airborne contaminants below exposure limits.
<b>Personal protective equipment</b>	
<b>Respiratory</b>	: An appropriate dust respirator. Should be used as a precautionary measure where airborne contaminants may occur.
<b>Eye</b>	: Safety glasses or chemical safety goggles
<b>Hand</b>	: Protective gloves
<b>Body</b>	: Overall or dust cloth, change daily.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

---

<b>Appearance</b>	: White liquid
<b>Odour</b>	: Slight odour
<b>Odour threshold</b>	: Data not available
<b>pH (water slurry at 25°C)</b>	: Data not available
<b>Melting point</b>	: Not determine
<b>Initial b.point and boiling range</b>	: Data not available
<b>Flash point</b>	: Data not available
<b>Evaporation rate</b>	: Not applicable
<b>Flammability</b>	: Non-flammable but combustible
<b>Lower flammable (Explosive) limit</b>	: Data not available
<b>Vapour pressure</b>	: Data not available
<b>Vapour density</b>	: Data not available

<b>Relative density</b>	: Data not available
<b>Solubility</b>	: Insoluble in water
<b>Octanol / water partition coefficient</b>	: Data not available
<b>Auto ignition temperature</b>	: Data not available
<b>Decomposition temperature</b>	: Data not available
<b>Viscosity</b>	: Data not available

---

## 10. STABILITY AND REACTIVITY

---

<b>Chemical stability</b>	: Stable under normal condition of storage & transport
<b>Possibility of hazardous reactions</b>	: Decomposed by acids, oxidizing agents and alkalies
<b>Conditions to avoid</b>	: Incompatible materials, static charge, sparks, heat and other ignition sources, generation of dust
<b>Incompatible materials</b>	: Can react with acids, oxidizing agents and alkalies
<b>Hazardous decomposition products</b>	: Carbon monoxide and carbon dioxide

---

## 11. TOXICOLOGICAL INFORMATION

---

<b>Routes of exposure</b>	: Can occur through inhalation, ingestion and eye contact.
<b><u>Acute health effects</u></b>	
<b>Eye contact</b>	: Mist may be slightly irritating..
<b>Skin contact</b>	: Probably not irritating and not absorbed.
<b>Inhalation</b>	: High concentration of vapour may cause coughing and mild temporary irritation.
<b>Ingestion</b>	: See doctor if feel unwell.
<b><u>Chronic health effects</u></b>	: No information available
<b>Carcinogenicity</b>	: No information available.
<b>Reproductive toxicity</b>	: No information available.
<b>Mutagenicity</b>	: No information available.

---

## 12. ECOLOGICAL INFORMATION

---

<b>Aquatic and terrestrial ecotoxicity</b>	: No information available
<b>Persistence and degradability</b>	: No information available
<b>Bioaccumulation</b>	: No information available
<b>Mobility in soil</b>	: No information available

The product should be prevented from entering drains, sewers, streams etc.

---

### 13. DISPOSAL CONSIDERATIONS

---

**Disposal method** : Dispose of waste in accordance with local regulations and acts. Contaminated packaging must be treated in the same manner as the product itself.

**Precautions for disposal** : Prevent material from entering drains, sewers, streams etc.

---

### 14. TRANSPORTATION INFORMATION

---

**UN No.** : Not regulated

**UN proper shipping name** : Not regulated

**Transport hazard class** : Not regulated

**Packing group** : -

**Special shipping instructions** : -

---

### 15. REGULATORY INFORMATION

---

**TSCA Chemical Inventory** :

This material is on the EPA Toxic Substance Control Act (TSCA) inventory list

---

### 16. OTHER INFORMATION

---

**MSDS creation date** : 05/10/2017 (B)

**Revision date** : -

**Revision number** : 0

---

**Disclaimer :**

---

"To the best of our knowledge the information contained herein is correct at the time of writing, and it is subject to change without prior notice. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. Users of any chemical should satisfy themselves that the conditions and methods of use assure that the chemical is used safely.

No warranty expressed or implied is made as to the accuracy, completeness of the information contained herein."

---

