



Safety Data Sheet (SDS)

Revision / Review Date: 11/14/14

1. Chemical Product and Company Identification

Product Name: Z Stearate USP
Distributed By: HB Chemical
1665 Enterprise Parkway
Twinsburg Oh 44087
Phone - 330-920-8023
MSDS Prepared By (w Suppliers Input): HB Chemical
Chemical Name / Family: Octadecanoic Acid, Zinc Salt
CAS No: 557-05-1
OSHA Status: Not Hazardous

For emergency health, safety, and environmental information, calls 330-920-8023
For emergency transportation information, in the United States: call CHEMTREC at 800-424-9300

2. Hazard(s) Identification

Caution: Avoid dust formation. Do not breathe vapours/dust. Many cause respiratory tract, eye and skin irritation. May cause physical irritation. Risk of dust explosion.

| | <u>HMIS</u> | <u>NFPA 704</u> |
|-------------------------------|-------------|-----------------|
| Color: White | 1 | 1 |
| Physical state: Powder | 1 | 1 |
| Odor: Mild | 0 | 0 |
| Health: | E | |
| Flammability: | | |
| Physical Hazard: | | |
| PPE: | | |

Primary Routes of Entry: Inhalation, ingestion, skin and eye contact.

Eye Contact: Contact with eyes may cause irritation.

Skin Contact: Prolonged skin contact may defat the skin and produce dermatitis.

Ingestion: May irritate digestive tract.

Inhalation: May cause irritation of respiratory tract.

Chronic Toxicity: No known effects under normal conditions of use. Excessive inhalation of dust may cause chemical pneumonitis, cyanosis, and pulmonary edema.

3. Composition / Information on Ingredients

| Components | CAS Number | Weight % |
|---------------|------------|----------|
| Zinc Stearate | 557-05-1 | 100% |

4. First Aid Measures

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|----------------------------|---|
| <u>Inhalation:</u> | Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician. |
| <u>Eyes:</u> | Rinse immediately with plenty of water, also under the eyelids. Get medical attention if irritation develops. |
| <u>Skin:</u> | Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. If symptoms persist, call physician. |
| <u>Ingestion:</u> | Drink plenty of water. Do not induce vomiting, consult a physician if necessary. |
| <u>Notes to physician:</u> | Treat symptomatically. |

5. Fire-Fighting Measures

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|--|---|
| <u>Flash point (°C):</u> | 260(518 °F) Method: PMCC |
| <u>Suitable Extinguishing Media:</u> | Use dry chemical, CO ₂ , water spray or "alcohol" foam. |
| <u>Special Fire Fighting Procedures:</u> | As in any fire, wear self-contained breathing apparatus (pressure-demand, NIOSH approved or equivalent) and full protective gear. |
| <u>Hazardous decomposition Products under Fire conditions:</u> | Carbon oxides. ZnO. |
| <u>Unusual hazards:</u> | Avoid dust formation. Fine dust dispersed in air may ignite. |

6. Accidental Release Measures

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|-----------------------------------|--|
| <u>Personal precautions:</u> | Avoid dust formation. Do not breathe vapors/dust. Remove all non-essential people from the affected area. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. |
| <u>Environmental precautions:</u> | Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate |

ground water system.

Methods for cleaning up:

Wear personal protective equipment. Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly. Dispose of promptly.

7. Handling and Storage:

Handling:

Avoid dust formation. Fine dust dispersed in air may ignite. Do not breathe vapors/dust. Handle in accordance with good industrial hygiene and safety practice. Use only in area provided with appropriate exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eye and clothing. Wear personal protective equipment. Do not eat, drink, or smoke in areas of use or storage. Do not take internally. Wash thoroughly after handling.

NFPA:

Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and handling of combustible Particulate Solids, for safe handling.

Storage:

Keep container tightly closed in a dry and well-ventilated place.

8. Exposure Controls / Personal Protection

Exposure Controls:

Minimize exposure in accordance with good hygiene practice.

| Components | OSHA PEL | ACGIH |
|---------------|--|-----------------|
| Zinc Stearate | 15 mg/m ³ TWA total dust 5 mg/m ³ TWA respirable fraction | Not established |

Engineering measures:

Provide appropriate exhaust ventilation at machinery and places where dust or fumes can be generated. Ensure that eyewash stations and safety showers are proximal to the work station location. Ensure adequate ventilation, especially in confined areas.

Protective Gloves:

Impervious gloves. Follow the recommendations given by the manufacturer of protective gloves.

Eye Protection:

Safety glasses with side-shields.

Skin and Body Protection:

Lightweight protective clothing. Keep working clothes separately. Remove and wash contaminated clothing before re-use.

Respiratory protection:

In cases of insufficient ventilation, wear suitable respiratory equipment. NIOSH approved respirators should be worn where engineering controls and work practices do not reduce exposure to or below the PEL. Seek professional advice prior to respirator selection and use.

Hygiene measure:

Wash hands before breaks and at the end of workday.

9. Physical and Chemical Properties

| | | | |
|----------------------------------|-------------------|-------------------------------------|-------------------|
| Color: | White | Physical state: | Powder |
| Odor: | Mild | Molecular weight: | No data available |
| Boiling point/range (°C): | No data available | pH: | No data available |
| Melting point/range (°C): | 120 - 132 | Specific gravity (Water =1): | > 1.00 |
| Vapor pressure : | No data available | Water solubility: | Negligible |
| VOC content | No data available | | |

10. Stability and Reactivity

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|--|--|
| <u>Stability:</u> | Stable at normal conditions. |
| <u>Polymerization:</u> | None under normal processing. |
| <u>Conditions to Avoid:</u> | Avoid dust formation. Dust may form explosive mixture in air. |
| <u>Hazardous decomposition products:</u> | None under normal use. Thermal decomposition can lead to release of irritating gases and vapors. Carbon oxides. ZnO. |
| <u>Materials to avoid:</u> | Strong oxidizing agents. |

11. Toxicological Information

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|---|--|
| Acute toxicity: | Information given is based on data on the components and the toxicology of similar products. |
| Components Zinc Stearate | NIOSH - Pocket Guide - Target Organs eyes respiratory system skin |
| Component information, if any, is listed below | |
| Zinc Stearate LD50s and LC50s: | Dermal LD50 (Rabbit) = 2000 mg/kg Oral LD50 (Rat) = 5000 mg/kg |

12. Ecological Information

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|---------------------------------------|---|
| <u>Aquatic toxicity:</u> | Information given is based on data on the components and the ecotoxicology of similar products. |
| <u>Persistence and degradability:</u> | No information available. |

13. Disposal Considerations

Reclaim or Dispose of material in accordance with all applicable local, state, and federal regulations.

14. Transport Information

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|---|----------------|
| <u>D.O.T. Shipping Name</u> | Not regulated. |
| <u>Air - ICAO (international Civil Aviation Organization)</u> | Not regulated |
| <u>Sea - IMDG (International Maritime Dangerous Goods)</u> | Not regulated |

15. Regulatory Information

U.S. Regulation:

TSCA: Not subject to TSCA 12(b) Export Notification.

SARA 313:

| <u>Components</u> | <u>U.S. - CERCLA/SARA - Section 313 - Emission Reporting</u> |
|-----------------------|--|
| Zinc (20 - 30%) | 1.0 % de minimis concentration |
| Zinc compounds (100%) | 1.0 % de minimis concentration |

State Regulations

This product or its ingredients have been evaluated for New Jersey, Pennsylvania, and California Prop 65 supplier notification requirements. Substances that are subject to notification requirements, if any, are listed below.

| <u>Components</u> | <u>PARTK:</u> |
|-------------------|----------------|
| Zinc | Listed (PARTK) |
| Zinc compounds | Listed |

| <u>Components</u> | <u>NJRTK:</u> |
|-------------------|---------------|
| Zinc compounds | 3012 |

Canadian WHMIS

WHMIS hazard class: Non-controlled

Canadian Ingredient Disclosure List (IDL):

| <u>Components</u> | <u>Canada - WHMIS Ingredient Disclosure:</u> |
|-------------------|--|
| Zinc Stearate | 1 |

International Inventories

| | |
|-----------------------------|---|
| U.S. EPA TSCA 8(b): | Listed or exempt. |
| Canada DSL/NDSL list | All ingredient(s) are listed on the DSL or NDSL |
| Europe (EINECS): | Listed or exempt. |
| Philippines (PICCS): | Listed. |
| Japan (ENCS): | Listed or exempt. |
| Korea (KECL): | Listed. |
| China (IECS): | Listed. |
| Australia (AICS): | Listed. |
| New Zealand (NZIoC): | Listed. |

16. Other Information

The above information has been compiled from what we believe to be credible sources. To our knowledge the information is accurate and reliable, however, it is not guaranteed. Any recommendations issued by HB Chemical personnel or literature is derived from experience and by no means should be taken as fact or construed as a recommendation to violate of any law, regulation or patent. It is the users responsibility to determine the suitability of any HB supplied material in their application. The individual conditions of each customer are well outside of our control and we cannot be held liable for its functionality and use. Please contact our office should you need specific information beyond what is supplied above. As with all Chemical usage safety precautions beyond the stated are highly recommended.