



Safety Data Sheet (SDS)

Revision / Review Date: 10/21/14

1. Chemical Product and Company Identification

Product Name: CAL ZN ST 1580
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: Stearate
CAS: Mixture
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

Warning Caution: Avoid dust formation. Do not breathe vapors/dust. May cause irritation of respiratory tract. May cause eye/skin irritation. May cause physical irritation. Risk of dust explosion.

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

Medical Conditions Generally Aggravated by Exposure:

Eye Contact: Contact with eyes may cause irritation.

Skin Contact: Prolonged skin contact may cause skin irritation and /or 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.

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

3. Composition / Information on Ingredients

Components	CAS Number	Weight %
Calcium Stearate	1592-23-0	50 - 60%
Zinc Stearate	557-05-1	50 - 60%

4. First Aid Measures

<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 a 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

<u>Flash point (°C):</u>	>260(500 °F) Method: COC
<u>Suitable Extinguishing Media:</u>	Use dry chemical, CO2, water spray or "alcohol" foam. Do not use a solid water stream as it may scatter and spread fire.
<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. Metal oxides. CaO.
<u>Unusual fire and explosion hazards:</u>	Avoid dust formation. Dust may form explosive mixture in air.

6. Accidental Release Measures

<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.
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<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.
<u>Methods for cleaning up:</u>	Wear personal protective equipment. Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly. Dispose of promptly.
<u>Waste Disposal:</u>	Reclaim or dispose of in accordance with local, state, and federal regulations

<u>7. Handling and Storage:</u>	
<u>Handling:</u>	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, eyes 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.
<u>NFPA:</u>	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.
<u>Storage:</u>	Keep in a dry, cool and well – ventilated place.

<u>8. Exposure Controls / Personal Protection</u>		
<u>Exposure Limits:</u>	Minimize exposure in accordance with good hygiene practice.	
	OSHA PEL	ACGIH
Components		
Zinc Stearate	15 mg/m ³ TWA total dust 5 mg/m ³ TWA respirable fraction	Not established
<u>Engineering measures:</u>	Provide appropriate exhaust ventilation at machinery and at 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.	
<u>Respiratory Protection:</u>	In case 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 advise prior to respirator selection and use.
<u>Protective Gloves:</u>	Impervious gloves. Follow the recommendations given by the manufacturer of protective gloves.
<u>Eye Protection:</u>	Safety glasses with side-shields.
<u>Skin and Body Protection:</u>	Lightweight protective clothing. Remove and wash contaminated clothing before re-use. Keep working clothes separately.
<u>Hygiene measures:</u>	Wash hands before breaks and at the end of workday.
<u>Decontamination Facilities:</u>	Eye bath, washing facilities (sinks / showers)

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):	112 - 119	Specific gravity (Water =1):	> 1.00
Vapor pressure :	No data available	Water solubility:	Insoluble
VOC content	No data available		

10. Stability and Reactivity

<u>Stability:</u>	This product is stable under normal conditions.
<u>Incompatibility (Materials to Avoid):</u>	Material reacts with strong oxidizing agents
<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. Metal oxides. CaO.
<u>Polymerization:</u>	Will not occur.

11. Toxicological Information

Acute toxicity:	Information given is based on data on the components and the toxicology of similar products.
Carcinogenic Effects:	Not listed by IARC, NTP or OSHA as a carcinogen.
Components Zinc Stearate	NIOSH - Pocket Guide - Target Organs eyes respiratory system skin
Component information, if any, is listed below	

Component information, if any, is listed below

Calcium Stearate

LD50s and LC50s: Oral LD50 (Rat) = 10 g/kg

Zinc Stearate

LD50s and LC50s: Dermal LD50 (Rabbit) = 2000 mg/kg
Oral LD50 (Rat) = 5000 mg/kg

12. Ecological Information

Aquatic Toxicity: Information given is based on data on the components and the ecotoxicology of similar products.

Persistence and degradability: No information available.

13. Disposal Considerations

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

14. Transport Information

D.O.T. Shipping Name Not Regulated.

Air - ICAO (international Civil Aviation Organization) Not regulated.

Sea - IMDG (International Maritime Dangerous Goods) Not Regulated.

15. Regulatory Information

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

SARA 313:

Components	U.S. - CERCLA/SARA - Section 313 - Emission Reporting
Zinc (5 - 10%)	1.0 % de minimis concentration
Zinc compounds (50 - 60%)	1.0 % de minimis concentration

FDA: This product has FDA Food Contact Clearance under 21 CFR 175.105, 175.300, 178.3910, and 181.29

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.

Components	PARTK:
Zinc	Listed (PARTK)
Zinc compounds	Listed

Components	NJRTK:
Zinc compounds	3012

Canadian WHMIS

WHMIS hazard class: Non-controlled

Canadian Ingredient Disclosure List (IDL):

Components	Canada - WHMIS Ingredient Disclosure:
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.