

Safety Data Sheet (SDS)

Revision / Review Date: 10/27/14

1. Chemical Product and Company Identification

Product Name: Distributed By:

MSDS Prepared By (w Suppliers Input): Chemical Name / Family: OSHA Status Zinc Stearate P HB Chemical 1665 Enterprise Parkway Twinsburg Oh 44087 Phone - 330-920-8023 HB Chemical Zinc distearate *Stearic acid, Zinc Salt Not Classified

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

<u>Physical hazards:</u> <u>Health hazards:</u> <u>Environmental hazards</u>:

Label elements Hazard symbol/ signal word:

Hazard Statement:

Precautionary statement:

Prevention:

Response:

Storage:

Disposal:

Hazards not otherwise classified (HNOC):

Supplemental information:

Not classified. Not classified. Not classified.

None.

The substance does not meet the criteria for classification.

Observe good industrial hygiene practices.

Wash hands after handling.

Store away from incompatible materials.

Dispose of waste and residues in accordance with local authority requirements.

None known.

None.

Chemical name	Common name and synonyms	CAS number	%
Zinc Stearate	Zinc distearate, Zinc salt of stearic acid	557-05-1	100

If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a physician if symptoms develop or persist.
Rinse with water. Get medical attention if irritation develops and persists.
Wash off with soap and water. Get medical attention if irritation develops and persists.
Rinse mouth. Get medical attention if symptoms occur.
Coughing. Irritation of eyes and membranes. Upper respiratory tract irritation. Skin irritation.
Treat symptomatically.
Ensure that medical personnel are aware of the material involved, and take precautions to protect themselves.

5. Fire-Fighting Measures	
Suitable Extinguishing Media:	Water fog. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.
Special Fire Fighting Procedures:	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/General fire hazards:	No unusual fire or explosion hazards noted.

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 the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.
Methods and material for containment and	
<u>Cleaning up:</u>	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 waterway, sewer, basements or confined areas. Following product recovery, flush area with water For waste disposal, see section 13 of the SDS.
Environmental precautions:	Avoid discharge into drains, water course or onto the ground.

7. Handling and Storage:	
Precautions to be taken in handling:	Provide appropriate exhaust ventilation at places where dust is formed. Minimize dust generation and accumulation. Avoid breathing dust. Avoid contact with eyes. Avoid prolonged exposure. Practice good housekeeping.
<u>Conditions for safe storage, including any</u> incompatibilities:	Store in original container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the
	SDS)

8. Exposure Controls / Personal Protection

Occupational exposure limits:

Material	Туре	Value	Form
Zinc Stearate (CAS 557-05-1)	PEL	5 mg/m3	Respirable fract
		15 mg/m3	Total dust
US. ACGIH Threshol		· · ·	
US. ACGIH Threshol Material	d Limit Values Type		Value

US. NIOSH: Pocket Guide to Chemical Hazards

Material	Туре	Value	Form
Zinc Stearate (CAS 557-05-1)	TWA	5 mg/m3	Respirable
		10 mg/m3	Total
iological limit values:		No biological exposure	limits noted for the ingredients.
Appropriate engineering cont	<u>rols:</u>	should be used. Ventila conditions. If applicable ventilation, or other en levels below recommer have not been establish level. Ventilation shoul prevent buildup of any during handling or ther are not sufficient to ma	on (typically 10 air changes per our) ition rates should be matched to e, use process enclosures, local exhaust gineering controls to maintain airborne nded exposure limits. If exposure limits ned, airborne levels to an acceptable ld be sufficient to effectively remove an dusts or fumes that may be generated mal processing. If engineering measure intain concentrations of dust Occupational exposure limit (OEL), otection must be worn.
eve Protection:		Use tight fitting goggles	s if dust is generated.
Skin and Body Protection:		Wear suitable protectiv	ve clothing.
Hand protection:		Wear appropriate chem	nical resistant gloves.
Respiratory protection:			proved respirator if there is a risk of at levels exceeding the exposure limits
<u> Fhermal hazards:</u>		Wear appropriate therr	mal protective clothing when necessary
General Hygiene Consideratio	<u>ns:</u>	washing after handling	ersonal hygiene measures, such as the material and before eating, drinkir inely wash work clothing and protective contaminants.

9. Physical and Chemical Properties

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Appearance	
Physical state	Solid.
Form	Powder, Flakes, Granular.
Color	White.
Odor	Slight
Odor threshold	Not available.
pH	7-9 @ 20 °C (in solution)
Melting point/freezing p	
Initial boiling point and	
	Not available.
boiling range	> 212.0 % (> 100.0 % C) C11 1 O C
Flash point	> 212.0 °F (>100.0 °C) Cleveland Open Cup
Evaporation rate	Not available.
Flammability (solid, ga	as) Not available.
Upper/lower flammab	ility or explosive limits
Flammability limit – le	
Flammability limit – u	
Explosive limit – lower	
Explosive limit – uppe	
Vapor pressure	< 0.0000001 kPa @ 25 °C.
Vapor density	Not available.
Relative density	1.095 g/cm3
Solubility(ies)	ter) Insoluble
Solubility (wa Partition coefficient	Not available.
(n-octanol/water)	Not available.
Auto-ignition tempera	ture 788 °F (420 °C)
Decomposition temper	
Viscosity	Not available.
Other information	
Density	1.10 g/cm3 estimated
Flammability	Combustible IIIB estimated
Flash point class	Combustible IIIB
Molecular formula	C18-H36-O2.1/2Zn
	632.34 g/mol
Molecular weight	
Specific gravity	1.1

10. Stability and Reactivity	
<u>Reactivity:</u>	The product is stable and non-reactive under normal conditions. of use, storage and transport.
Chemical stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No dangerous reaction known under conditions of normal use.

Incompatibility (Materials to Avoid):	Strong oxidizing agents.
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)
Hazardous decomposition products:	no hazardous decomposition products are known.

11. Toxicological Information	
Information on likely routes of exposure:	
Ingestion:	Expected to be a low ingestion hazard.
Inhalation:	Prolonged inhalation may be harmful. Inhalation of dust may cause respiratory irritation.
<u>Skin contact</u> :	No adverse effects due to skin contact are expected.
<u>Eye contact:</u>	Dust in the eyes will cause irritation.
Symptoms related to the physical, chemical and	
Toxicological effects:	Coughing, Upper respiratory tract irritation. Irritation of eyes and mucous membranes. Skin irritation.
Acute toxicity:	Not available.
Skin corrosion/irritation:	Prolonged skin contact may cause temporary irritation.
Respiratiory or skin sensitization:	
Respiratory Sensitization:	Not available.
Skin Sensitization:	This product is not expected to cause skin sensitization.
<u>Germ cell mutagenicity:</u>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity:	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
OSHA specifically regulated substances (29 CFR 1910.1	<u>.001-1050)</u> Not listed.
<u>Reproductive toxicity:</u>	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity- single exposure:	Not classified.
Specific target organ toxicity repeated exposure:	Not classified.
Aspiration hazard:	Not available.
Chronic effects:	Prolonged inhalation may be harmful.

12. Ecological Information

Ecotoxicity:	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.
Bio accumulative potential:	No data available.
Mobility in soil:	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.

13. Disposal Considerations	
Disposal Instructions:	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Local disposal regulations:	Dispose in accordance with all applicable regulations.
Hazardous waste code:	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues/unused products:	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residue. This material and it 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. Since emptied containers my retain product residue, follow label warnings even after container is emptied.

14. Transport Information	
D.O.T. Shipping Name	Not regulated as dangerous goods.
Air - ICAO (international Civil Aviation Organization)	Not regulated as dangerous goods.
Sea - IMDG (International Maritime Dangerous Goods)	Not regulated as dangerous goods.
Transport in bulk according to Annex II of MARPOL 73/7	78 and the IBC code: Not applicable.

15. Regulatory Information

US federal regulations	All components are on the U	J.S. EPA TSCA Inventory List.	
	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication		
	Standard, 29 CFR 1910.120		
CERCLA Hazardous	Substance List (40 CFR 302.4		
		isted.	
SARA 304 Emergency			
Not regulated.			
OSHA Specifically Re Not listed.	gulated Substances (29 CFR 1	910.1001-1050)	
1101 115100.			
Superfund Amendments an	d Reauthorization Act of 1	986 (SARA)	
Hazard categories Immediate Hazard - No			
5	Delayed Hazard - No		
	Fire Hazard - Yes		
	Pressure Hazard - No		
	Reactivity Hazard - N		
	reactivity muzura m		
SARA 302 Extremely hazardous	substance		
Not listed.	substance		
SARA 311/312 Yes			
Hazardous chemical			
SARA 313 (TRI reporting)			
Chemical name	CAS number	% by wt.	
Zinc coumpounds	557-05-1	100	
Other federal regulations			
Clean Air Act (CAA) Se	ction 112 Hazardous Air Pollut	ants (HAPs) List	
Not regulated.			
	ction 112(r) Accidental Release	Prevention (40 CFR 68.130)	
Not regulated.			
Safe Drinking Water Ac	et (SDWA)		
Not regulated.			
US state regulations			

US. Massachusetts RTK - Substance List Zinc Stearate (CAS 557-05-1) US. New Jersey Worker and Community Right-to-Know Act Zinc Stearate (CAS 557-05-1) US. Pennsylvania Worker and Community Right-to-Know Law

Zinc Stearate (CAS 557-05-1)

US. Rhode Island RTK

Zinc Stearate (CAS 557-05-1)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	ountry(s) or region Inventory name	
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other Information

HMIS® ratings

NFPA ratings

Health: 0 Flammability: 0 Physical hazard: 0 Health: 0 Flammability: 2 Instability: 0

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.