ZINC STEARATE KOSHER POWDER, CODE 2222

SECTION 1. IDENTIFICATION

Product identifier

Trade name : **ZINC STEARATE KOSHER POWDER, CODE 2222**

Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Manufacture of plastics products, Manufacture of rubber products, Manufacture of soap and detergents, cleaning and polishing mixtures, Manufacture of paper and paperboard, Manufacture of glues
Polymer additive
Lubricant and release agent, water repellent agent

Recommended restrictions on use : None known.

Manufacturer or supplier's details

Company name of supplier : Baerlocher Production USA LLC
513-604-2327

Address : 5890 Highland Ridge Drive
Cincinnati OH 45232

Emergency telephone number : CHEMTREC: 1-800-424-9300 (inside U.S.) / 1-703 527-3887 (outside U.S.) Collect calls are accepted

E-mail address : Hotline.PS@baerlocher.com

Responsible/issuing person : Product Safety Department

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Combustible dust

GHS label elements

Signal word : Warning

Hazard statements : May form combustible dust concentrations in air.

Precautionary statements : None.

Other hazards

Health injuries are not known or expected under normal use.
Dust can form an explosive mixture in air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Chemical nature : Zinc salt of C16 - C18 fatty acids.
CAS-No. 557-05-1

Components

Chemical name	CAS-No.	Concentration (% w/w)
Zinc Compounds*	Trade Secret	<= 100*

*Trade Secret - The specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

If inhaled : Move to fresh air.
In case of skin contact : Wash off with plenty of water.
In case of eye contact : Rinse with plenty of water.
If swallowed : Clean mouth with water and drink afterwards plenty of water.
Most important symptoms and effects, both acute and delayed : No information available.
Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray
Foam
Carbon dioxide (CO2)
Dry chemical
Sand
Unsuitable extinguishing media : High volume water jet
Specific hazards during fire-fighting : Smoke and fumes, toxic.
Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Avoid dust formation.
Remove all sources of ignition.

Environmental precautions : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

Methods and materials for containment and cleaning up : Use mechanical handling equipment.
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Take precautionary measures against static discharges.
Keep away from sources of ignition - No smoking.
Avoid formation and buildup of dust.
Conditions for safe storage : Store at room temperature in the original container.
Keep in a dry place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

inert or nuisance dust	50 Million particles per cubic foot Value type (Form of exposure): TWA (total dust) Basis: OSHA Z-3 15 mg/m3 Value type (Form of exposure): TWA (total dust) Basis: OSHA Z-3 5 mg/m3 Value type (Form of exposure): TWA (respirable fraction) Basis: OSHA Z-3 15 Million particles per cubic foot Value type (Form of exposure): TWA (respirable fraction) Basis: OSHA Z-3
Dust, nuisance dust and particulates	10 mg/m3 Value type (Form of exposure): PEL (Total dust) Basis: CAL PEL 5 mg/m3 Value type (Form of exposure): PEL (respirable dust fraction) Basis: CAL PEL
Particulates not otherwise regulated	10 mg/m3 Value type (Form of exposure): PEL (Total dust) Basis: CAL PEL 5 mg/m3 Value type (Form of exposure): PEL (respirable dust fraction) Basis: CAL PEL Basis: NIOSH REL
particulates not otherwise regulated	15 mg/m3 Value type (Form of exposure): TWA (total dust) Basis: OSHA Z-1 5 mg/m3 Value type (Form of exposure): TWA (respirable fraction) Basis: OSHA Z-1
Particulates not otherwise regulated	15 mg/m3 Value type (Form of exposure): TWA (Total) Basis: OSHA P0 5 mg/m3 Value type (Form of exposure): TWA (Respirable fraction) Basis: OSHA P0

Particles (insoluble or poorly soluble) not otherwise specified	10 mg/m3 Value type (Form of exposure): TWA (Inhalable particulate matter) Basis: ACGIH 3 mg/m3 Value type (Form of exposure): TWA (Respirable particulate matter) Basis: ACGIH

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Zinc Compounds	Trade Secret	TWA (Respirable)	5 mg/m3	NIOSH REL
		TWA (total)	10 mg/m3	NIOSH REL
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Total dust)	10 mg/m3	OSHA P0
		TWA (respirable dust fraction)	5 mg/m3	OSHA P0
		TWA (Inhalable particulate matter)	10 mg/m3	ACGIH
		TWA (Respirable particulate matter)	3 mg/m3	ACGIH

Engineering measures : Local exhaust

Personal protective equipment

Respiratory protection : P1 filter respirator for inert particles

Hand protection

Directive : Protective gloves complying with EN 374.

Eye protection : Safety glasses

Skin and body protection : Long sleeved clothing

Protective measures : antistatic shoes

Hygiene measures : When using do not eat or drink.
Do not smoke.
Wash hands before breaks and at the end of workday.
Shower or bathe at the end of working.
Keep working clothes separately.
Handle in accordance with good industrial hygiene and safety practice.
Regular cleaning of equipment, work area and clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : solid

Color	:	white
Odor	:	slight
Odor Threshold	:	No data available
pH	:	7 - 9 (20 °C)
Melting point/range	:	120 - 122 °C Method: Kofler Hot Bar (OECD 102)
Boiling point/boiling range	:	No data available
Flash point	:	>> 100 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	The product is not flammable.
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	1.10 g/cm3 Method: OECD Test Guideline 109
Solubility(ies)		
Water solubility	:	0.9 mg/l (20 °C) Method: OECD Test Guideline 105
Partition coefficient: n-octanol/water	:	Pow: 1.2Method: OECD Test Guideline 107
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No decomposition if stored and applied as directed.
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Conductivity	:	No data available
Particle size	:	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable at normal ambient temperature and pressure.
Chemical stability	:	No decomposition if stored normally.
Possibility of hazardous reactions	:	Applies to granules (R), pastilles (TX) and flakes (SMS): The product is not a dust explosion risk as supplied; however

the build-up of fine dust can lead to a risk of dust explosions.
Applies to powder and remaining product forms:
Risk of dust explosion.

Conditions to avoid	:	Avoid dust formation. Keep away from heat and sources of ignition.
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	No decomposition if used as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation
Skin contact
Ingestion

Acute toxicity

Components:

Zinc Compounds:

Acute oral toxicity	:	Remarks: Read-across (Analogy) LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 Assessment: The substance or mixture has no acute oral toxicity
Acute inhalation toxicity	:	Remarks: Read-across (Analogy) LC50 (Rat): > 200 mg/l Exposure time: 1 h Test atmosphere: dust/mist Method: standardised international/national methodology LC50 (Rat): > 50 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	:	Remarks: Read-across (Analogy) LD50 (Rabbit): > 2000 mg/kg bw Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Components:

Zinc Compounds:

Remarks: Read-across (Analogy)

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation
Remarks: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Components:

Zinc Compounds:

Remarks: Read-across (Analogy)

Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405
Remarks: Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Components:

Zinc Compounds:

Remarks: Skin sensitisation
Read-across (Analogy)

Remarks: Respiratory sensitisation
Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Components:

Zinc Compounds:

Genotoxicity in vitro	:	Remarks: Read-across (Analogy)
	:	Test Type: Mutagenicity (Salmonella typhimurium - reverse mutation assay) Species: Bacteria Method: OECD Test Guideline 471 Result: negative GLP: yes
	:	Remarks: Read-across (Analogy)
	:	Test Type: In vitro gene mutation study in mammalian cells Species: mouse lymphoma cells Method: OECD Test Guideline 476 Result: contradictive GLP: yes
Genotoxicity in vivo	:	Remarks: Read-across (Analogy)

Test Type: Micronucleus test
Species: Rat
Application Route: inhalation (dust/mist/fume)
Method: OECD Test Guideline 474
Result: negative
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Carcinogenicity

Product:

Remarks: This product contains no known or suspected carcinogens listed by IARC, NTP or OSHA at or above reportable quantities.

Components:

Zinc Compounds:

Remarks: Read-across (Analogy)

Remarks: Based on available data, the classification criteria are not met.

Reproductive toxicity

Components:

Zinc Compounds:

Effects on fertility	:	Remarks: Read-across (Analogy) Remarks: Based on available data, the classification criteria are not met.
Effects on foetal development	:	Remarks: Read-across (Analogy) Remarks: Based on available data, the classification criteria are not met.

STOT - single exposure

Components:

Zinc Compounds:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Components:

Zinc Compounds:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

Zinc Compounds:

Species: Humans
NOAEL: 50 mg/kg
Application Route: Oral
Remarks: daily
referring to zinc content

Aspiration toxicity

Components:

Zinc Compounds:

Based on available data, the classification criteria are not met.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Zinc Compounds:

Toxicity to fish	:	Remarks: Read-across (Analogy) LC50 (Danio rerio (zebra fish)): > 10,000 mg/l Exposure time: 96 h Test Type: semi-static test Method: Directive 67/548/EEC, Annex V, C.1. Remarks: Read-across (Analogy) LC50 (Oncorhynchus mykiss (rainbow trout)): 0,169 Exposure time: 96 h Test Type: static test Method: standardised international/national methodology Remarks: Read-across (Analogy) LC50 (Pimephales promelas (fathead minnow)): 0,330 - 0,780 Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: Read-across (Analogy) EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h

Test Type: static test
Method: OECD Test Guideline 202

Remarks: Read-across (Analogy)

LC50 (Ceriodaphnia dubia (water flea)): 0,147 - > 0,53 mg Zn/l

Toxicity to algae : Remarks: Read-across (Analogy)

EL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l
Exposure time: 72 h
Test Type: semi-static test
Method: OECD Test Guideline 201
GLP: yes
Remarks: Value refered to the Water accumulated fraction (WAF).

EL10 (Pseudokirchneriella subcapitata (green algae)): 3.31 mg/l
Exposure time: 72 h
Test Type: semi-static test
Method: OECD Test Guideline 201
GLP: yes
Remarks: Value refered to the Water accumulated fraction (WAF).

Toxicity to fish (Chronic toxicity) : Remarks: Read-across (Analogy)

NOEC: 0,044 - 0,530 mg Zn/L
Test Type: Fresh water

Remarks: Read-across (Analogy)

NOEC: 0,025 mg Zn/L
Test Type: Marine water

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: Read-across (Analogy)

NOEC: 0,014 - 0,400 mg Zn/L
Test Type: Fresh water

Remarks: Read-across (Analogy)

NOEC: 0,0056 - 0,9 mg Zn/L
Test Type: Marine water

Toxicity to bacteria : GLP:
Remarks: Read-across (Analogy)

NOEC (Photobacterium phosphoreum): 1,560 mg/l
Exposure time: 0.5 h

Test Type: static test
Method: DIN 38412 T 34
GLP:

GLP:
Remarks: Read-across (Analogy)

EC50 (activated sludge): 5,2 mg Zn/l
Exposure time: 3 h
Test Type: static test
Method: OECD Test Guideline 209
GLP: no

Ecotoxicology Assessment

Acute aquatic toxicity	:	This product has no known ecotoxicological effects.
Chronic aquatic toxicity	:	This product has no known ecotoxicological effects.

Persistence and degradability

Components:

Zinc Compounds:

Biodegradability	:	Remarks: Read-across (Analogy)

aerobic
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 93 %
Exposure time: 28 d
Method: OECD Test Guideline 301D
GLP: no

Bioaccumulative potential

Components:

Zinc Compounds:

Bioaccumulation	:	Remarks: Read-across (Analogy)

Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water	:	Remarks: Not applicable

Mobility in soil

Components:

Zinc Compounds:

Mobility	:	Remarks: No data available

Other adverse effects

Components:

Zinc Compounds:

Results of PBT and vPvB assessment	:	Based on available data, the classification criteria are not met.
Endocrine disrupting potential	:	No information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	:	Consult an expert on the disposal of recovered material. Ensure disposal in compliance with government requirements and ensure conformity to local disposal regulations. Dispose in accordance with local, state and federal regulations.
Contaminated packaging	:	Empty containers must be handled with care due to product residue.

SECTION 14. TRANSPORT INFORMATION

National Regulations

DOT
Not regulated as a dangerous good

International Regulations

UNRTDG
Not regulated as a dangerous good

IATA-DGR
Not regulated as a dangerous good

IMDG-Code
Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

SECTION 15. REGULATORY INFORMATION

SARA 313 : This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

Components	CAS-No.	Wt.
Zinc Compounds (N982)	Not Assigned	100

The components of this product are reported in the following inventories:

TSCA	listed
DSL	listed
AICS	listed
ENCS	listed
ECL	listed
PICCS	listed
IECSC	listed
EINECS	listed

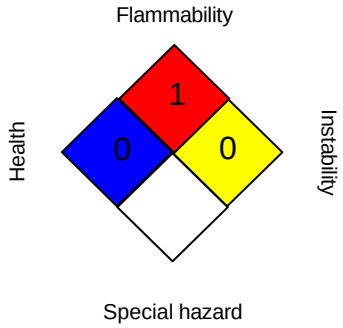
SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

NFPA:



HMIS III:

HEALTH	**1**
FLAMMABILITY	**1**
PHYSICAL HAZARD	**0**

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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