



**Zinc Stearate XM Powder HyDense, Code 5925**

Version 1.2

Revision Date 06/04/2021

**SECTION 1. IDENTIFICATION**

**Product identifier**

Trade name : **Zinc Stearate XM Powder HyDense, Code 5925**

**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.

**Details of the supplier of the safety data sheet**

Company : Baerlocher Production USA LLC  
5890 Highland Ridge Drive  
Cincinnati, OH 45232

Telephone : Day 330-602-1528 or 330-602-1531  
: Night 513-207-1620 or 513-604-2327

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

Responsible/issuing person : Product Safety Department

**Emergency telephone number (0 - 24 h)**

Tel.: 800-424-9300 USA or 703-527-3887

**SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification**

Combustible dust : May form explosive dust-air mixture.

**GHS label elements**

Signal word : Warning

Hazard statements : May form combustible dust concentrations in air.

**Other hazards**

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



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**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.

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**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
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.

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**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.

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**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.



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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Zinc compounds	Trade Secret	PEL	15 mg/m <sup>3</sup> (total dust)	OSHA Z-1
		PEL	5 mg/m <sup>3</sup> (Respirable fraction)	OSHA Z-1
		TWA	10 mg/m <sup>3</sup> (total dust)	NIOSH REL
		TWA	5 mg/m <sup>3</sup> (Respirable fraction)	NIOSH REL
		TWA	10 mg/m <sup>3</sup> (Respirable dust)	ACGIH
		TWA	5 mg/m <sup>3</sup> (Respirable fraction)	ACGIH
General limits for air contaminants (PNOC)	Not Assigned	air 8 h (total dust)	15 mg/m <sup>3</sup>	OSHA Z-3
		air 8 h (Respirable fraction)	5 mg/m <sup>3</sup>	OSHA Z-3
		air 8 h (inhalable dust)	10 mg/m <sup>3</sup>	ACGIH
		air 8 h (Respirable fraction)	3 mg/m <sup>3</sup>	ACGIH

**Engineering measures** : Local exhaust

**Personal protective equipment**

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.  
Half mask with a particle filter P2 (EN 143)  
P1 filter respirator for inert particles

Hand protection

Remarks : protective gloves acc. to EN 374, e.g. neoprene  
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.



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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	:	powder
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)	:	Combustible Solids
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/cm <sup>3</sup> 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

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	Stable at normal ambient temperature and pressure.
Chemical stability	:	No decomposition if stored normally.
Possibility of hazardous reac-	:	Risk of dust explosion.



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tions  
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**

**Acute toxicity**

**Product:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
Remarks: Read-across (Analogy)  
LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 423  
Remarks: Based on available data, the classification criteria are not met.

Acute inhalation toxicity : LC50 (Rat): > 200 mg/l  
Exposure time: 1 h  
Test atmosphere: dust/mist  
LC50 (Rat): > 50 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Remarks: Based on available data, the classification criteria are not met.

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Remarks: Based on available data, the classification criteria are not met.

**Skin corrosion/irritation**

**Product:**

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: not irritating  
Remarks: Based on available data, the classification criteria are not met.

**Serious eye damage/eye irritation**

**Product:**

Species: Rabbit  
Result: not irritating  
Method: OECD Test Guideline 405  
Remarks: Based on available data, the classification criteria are not met.



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**Respiratory or skin sensitisation**

**Product:**

Remarks: Skin sensitisation  
Patch test on human volunteers did not demonstrate sensitisation properties.  
Based on available data, the classification criteria are not met.

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

**Germ cell mutagenicity**

**Product:**

Genotoxicity in vitro : Remarks: Read-across (Analogy)  
: Method: standardised international/national methodology  
Result: negative  
Remarks: Based on available data, the classification criteria are not met.

Genotoxicity in vivo : Remarks: Read-across (Analogy)  
Method: standardised international/national methodology  
Result: negative  
Remarks: Based on available data, the classification criteria are not met.

**Carcinogenicity**

**Product:**

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

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

**Reproductive toxicity**

**Product:**

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.



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**STOT - single exposure**

**Product:**

Remarks: Read-across (Analogy)

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

**Repeated dose toxicity**

**Product:**

Remarks: Read-across (Analogy)

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

**Aspiration toxicity**

**Product:**

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

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**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Product:**

Toxicity to fish : 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 mg Zn/L  
Exposure time: 96 h  
Test Type: static test  
Method: standardised international/national methodology

Remarks: Read-across (Analogy)

(Pimephales promelas (fathead minnow)): 0,330 - 0,780 mg Zn/L

Toxicity to daphnia and other aquatic invertebrates : 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)



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	LC50 (Ceriodaphnia dubia (water flea)): 0.147 - > 0,53 mg Zn/l
Toxicity to algae	: NOEC (Pseudokirchneriella subcapitata (green algae)): 19.3 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201  EC50 (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 referred to the Water accumulated fraction (WAF).  EC10 (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 referred 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: 0,037 - 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	: NOEC (Photobacterium phosphoreum): 1,560 mg/l Exposure time: 0.5 h Test Type: static test Method: DIN 38412 T 34 GLP:





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- : 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

**Persistence and degradability**

No data available

**Bioaccumulative potential**

**Product:**

Bioaccumulation : Remarks: Not applicable

**Mobility in soil**

**Product:**

Mobility : Remarks: According to experience not expected

**Other adverse effects**

**Product:**

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

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**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.

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**SECTION 14. TRANSPORT INFORMATION**

**National Regulations**

**DOT**

Not regulated as a dangerous good



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**International Regulations**

**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:**

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

**SECTION 16. OTHER INFORMATION**

**Full text of other abbreviations**

AICS - Australian Inventory of Chemical Substances; 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



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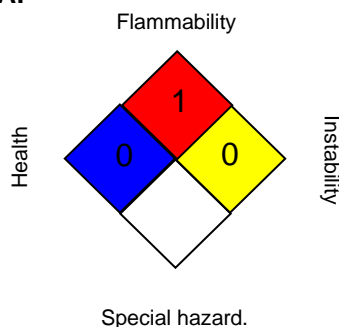
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Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical 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; 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:**

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

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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