Printing date 17.07.2021

CHEMICALS, INC.

Revision: 17.07.2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1 Product identifier Trade name: Zine powder (99.999%) Item number: 30-0050 CASS Number: 7440-66-6 EC number: 321-175-3 Index number: 321-175-3 Index number: 300-00-1-00-1 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. 1.3 Details of the supplier of the safety data sheet Manufacture?Supplier: Strem Chemicals. Inc. 7 Multiken Way NEWBURYPORT, MA 01950 USA info@strem.com Further information obtainable from: Technical Department 1.4 Emergency telephone number: EMERGENCY: CHEMTREC: + 1 (800) 424-9300 During normal opening times: + 1 (978) 499-1600 SECTION 2: Hazards identification 2.1 Classification of the substance or mixture Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 SECTION 2: Hazards identification 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Self-heat. 1 H251 Self-heating: may catch fire. Water-react. 2 H261 In contact with water releases flammable gases. Self-heat. 1 H400 Very toxic to aquatic life. Aquatic Chronic 1 H4100 Very toxic to aquatic life. Aquatic Chronic 1 H4100 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very	nting date 17.07.2021	Revision: 17.07.202
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H261 In contac	t with water releases flammable gases.
H410 Very toxi	c to aquatic life with long lasting effects.
· Precautionary	statements
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P232	Protect from moisture.
P303+P361+P	353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/
	shower.
P305+P351+P	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· 2.3 Other hazar	rds
D. 1. CDDT	

- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- 3.1 Chemical characterisation: Substances
- · CAS No. Description
- 7440-66-6 zinc powder -zinc dust (pyrophoric)
- Identification number(s)
- EC number: 231-175-3
- Index number: 030-001-00-1

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents:
- Sand. Do not use water.
- CO2, sand, extinguishing powder. Do not use water.
- Use fire extinguishing methods suitable to surrounding conditions.
- · For safety reasons unsuitable extinguishing agents: Water
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.

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- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system.
- 6.3 Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents
- 6.4 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling No special precautions are necessary if used correctly. • Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- \cdot Further information about storage conditions:
- Keep container tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.
 Respiratory protection: Not required.
- Protection of hands:



Protective gloves

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	ele and resistant to the product/ the substance/ the preparation. n to the glove material can be given for the product/ the preparation/ th
chemical mixture.	
Selection of the glove material on consid • Material of gloves	deration of the penetration times, rates of diffusion and the degradation
	s not only depend on the material, but also on further marks of quality an
varies from manufacturer to manufactur	er.
• Penetration time of glove material The exact break through time has to b	e found out by the manufacturer of the protective gloves and has to b
observed.	e jound out by the manufacturer of the protective gloves and has to b
• Eye protection: Safety glasses	
• 9.1 Information on basic physical and o	chemical properties
· General Information	
· Appearance: Form:	Powder
Colour:	Grey
· Odour:	Odourless
· Odour threshold:	Not determined.
· pH-value:	Not applicable.
· Change in condition	
Melting point/freezing point:	419.58 °C
Initial boiling point and boiling range	e: 907 °C
· Flash point:	Not applicable.
· Flammability (solid, gas):	Flammable.
	Contact with water liberates extremely flammable gases.
· Ignition temperature:	
Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Not determined.
· Explosive properties:	Not determined.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
• Vapour pressure at 487 •C:	1 hPa
· Density at 20 •C:	$7.14 \ g/cm^3$
· Relative density	Not determined.
· Vapour density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with	lagsluble
water:	Insoluble.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Solvent content:	
Organic solvents:	0.0%
VOC (EC)	0.00 %



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Solids content: • 9.2 Other information 100.0 % No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- \cdot 10.3 Possibility of hazardous reactions Contact with water releases flammable gases.

• 10.4 Conditions to avoid No further relevant information available.

• 10.5 Incompatible materials: No further relevant information available.

• 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

- Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- Ecotoxical effects:
- *Remark:* Very toxic for fish
- · Additional ecological information:
- · General notes:
- Also poisonous for fish and plankton in water bodies.
- Very toxic for aquatic organisms
- · 12.5 Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- **vPvB:** Not applicable.
- 12.6 Other adverse effects No further relevant information available.

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SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

14.1 UN-Number	
ADR, IMDG, IATA	UN1436
14.2 UN proper shipping name ADR IMDG, IATA	1436 ZINC POWDER ZINC POWDER
14.3 Transport hazard class(es)	
ADR	
Class	4
Label	4.3+4.2
· IMDG	
Class	4.3 Substances which, in contact with water, emit flammab gases.
Label	4.3/4.2
IATA	
Class	4.3 Substances which, in contact with water, emit flammab gases.
Label	4.3 (4.2)
14.4 Packing group ADR, IMDG, IATA	II
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user	Not applicable.

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Danger code (Kemler):	423
Segregation groups	Heavy metals and their salts (including their organometalli compounds), heavy metals and their salts (including thei organometallic compounds), powdered metals
Stowage Category	A
Handling Code	H1 Keep as dry as reasonably practicable
Segregation Code	SG26 In addition: from goods of classes 2.1 and 3 whe stowed on deck of a containership a minimum distance of tw container spaces athwartship shall be maintained, whe stowed on ro-ro ships a distance of 6 m athwartship shall b maintained. SG35 Stow "separated from" acids. SG36 Stow "separated from" alkalis.
14.7 Transport in bulk according to An	
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	0
Excepted quantities $(\widetilde{E}Q)$	Code: E2
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 500 g
Transport category	2
Tunnel restriction code	D/E
IMDG	
Limited quantities (LQ)	0
Excepted quantities $(\widetilde{E}Q)$	Code: E2
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 500 g
UN ''Model Regulation'':	UN 1436 ZINC POWDER, 4.3 (4.2), II

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- · Seveso category E1 Hazardous to the Aquatic Environment
- Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
- \cdot Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 40
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Technical Department.
- · Contact: Technical Director

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Abbreviations and acronyms:	
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internation
Carriage of Dangerous Goods by Road)	
IMDG: International Maritime Code for Dangerous Goods	
IATA: International Air Transport Association	
GHS: Globally Harmonised System of Classification and Labelling of Chemicals	
EINECS: European Inventory of Existing Commercial Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
VOC: Volatile Organic Compounds (USA, EU)	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
Self-heat. 1: Self-heating substances and mixtures – Category 1	
Water-react. 2: Substances and mixtures which in contact with water emit flammable gas	res – Category 2
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Categor	ry 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – (Category 1

