



S.A. LIPMES

08243 Manresa (Barcelona)

Date printed 15.12.2010, Revision 14.12.2010

Version 01

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1 Identification of the substance / preparation and of the company

1.1 Product identifier

Zink chloride Granules-Powder

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

Usage only in accordance with the identified usages as stipulated in the CSR/CSA.
Raw material for industrial applications

1.3 Details of the supplier of the safety data sheet

Company

S.A. LIPMES
Creu Guixera s/n
08243 Manresa (Barcelona) / SPAIN
Phone +34 938770447
Fax +34 938741160
E-mail lipmes@lipmes.com

Responsible

Schroeder@chemiebuero.de

Supplied by:



4621 Technology Drive, Golden, CO 80403
ph: (303) 762-0800 fax: (303) 762-1240

Part #: CF1190

1.4 Emergency phone

+49 (0) 89-19240 (24h)

2 Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

Acute Tox. 4, H302
Skin Corr. 1B, H314
Aquatic Acute 1, H400
Aquatic Chronic 1, H410

2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC

C-N, R 22-34-50/53

2.2 Label elements

Hazard pictograms



Signal word

DANGER

Contains

Zinc chloride EU-INDEX 030-003-00-2

Hazard statements

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P260 Do not breathe dust.
P304 P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P273 Avoid release to the environment.
P405 Store locked up.

Special labelling

not applicable



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2.3 Other hazards

Physico-chemical hazards	See chapter 10. See chapter 14.
Human health dangers	See chapter 11.
Environmental hazards	See chapter 12. The product/the substance has the Water Hazard Class 3.
Other hazards	No particular hazards known.

3 Composition / Information on ingredients

3.1 Substances

Range [%]	Substance
~100	Zinc chloride
	CAS: 7646-85-7, EINECS/ELINCS: 231-592-0 EU-INDEX: 030-003-00-2 ECB-Nr.:
	GHS/CLP: Acute Tox. 4, H302 - Skin Corr. 1B, H314 - Aquatic Acute 1, H400 - Aquatic Chronic 1, H410
	EEC: C-N, R22-34-50/53

3.2 Mixtures

The product in question is a substance.

Comment on component parts	Substances of Very High Concern - SVHC: substances are not contained or below 0,1%. For the wording of the listed risk phrases refer to section 16.
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4 First aid measures

4.1 Description of first aid measures

General information	Remove contaminated soaked clothing immediately and dispose of safely.
Inhalation	Consult a doctor immediately. Ensure supply of fresh air.
Skin contact	Immediate medical treatment necessary, as untreated burns can result in slow-healing wounds. In case of contact with skin wash off immediately with plenty of water.
Eye contact	In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice. Shield unaffected eye.
Ingestion	Consult a doctor immediately. Do not induce vomiting. Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

No informations available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5 Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.
Extinguishing media that must not be used	Full water jet.

5.2 Special hazards arising from the substance or mixture

In the event of fire the following can be released
Hydrogen chloride (HCl).



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5.3 Advice for firefighters

Use self-contained breathing apparatus.

Wear full protective suit.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6 Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment.

Avoid dust formation.

Use breathing apparatus if exposed to dust.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Avoid raising dust.

Take up mechanically.

Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See Chapter 8+13

7 Handling and storage**7.1 Precautions for safe handling**

Avoid the formation and deposition of dust.

Provide vacuuming if dust raised.

Use breathing apparatus when transferring large quantities without vacuuming facilities.

No special measures necessary.

7.2 Conditions for safe storage, including any incompatibilities

Provide acid-resistant floor.

Do not store with alkalies.

Store in a dry place.

Keep container tightly closed.

Keep container in a well-ventilated place.

7.3 Specific end use(s)

See product use, Chapter 1.2

Usage only in accordance with the identified usages as stipulated in the CSR/CSA.

8 Exposure controls / personal protection**8.1 Control parameters****Ingredients with occupational exposure limits to be monitored (GB)**

Range [%]	Substance / WEL: Workplace exposure limit
~100	Zinc chloride / - ppm, 1 mg/m ³ , fume



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8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Generic Exposure Scenarios only in accordance with the identified usages as stipulated in the CSR/CSA.
Eye protection	Tightly fitting goggles.
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact Nitrile rubber, >480 min (EN 374). In splash contact Nitrile rubber, >480 min (EN 374).
Skin protection	Acid-resistant protective clothing.
Other	Avoid contact with eyes and skin. Do not inhale dust. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier. Do not eat, drink, smoke or take drugs at work. Clean skin thoroughly after work, apply skin cream. Use barrier skin cream.
Respiratory protection	Breathing apparatus in the event of high concentrations. Short term: filter apparatus, filter P2.
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	not determined

9 Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Form	crystalline solid in different forms
Color	white
Odor	odourless
Odour threshold	not applicable
pH-value	>5 (100g/l 20°C)
pH-value [1%]	not determined
Boiling point [°C]	732
Flash point [°C]	not applicable
Flammability [°C]	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidizing properties	no
Vapour pressure [kPa]	1,33 hPa (428°C)
Density [g/ml]	2,93
Bulk density [kg/m³]	1800
Solubility in water	851 g/l (20°C)
Partition coefficient [n-octanol/water]	not determined
Viscosity	not applicable
Relative vapour density determined in air	not applicable
Evaporation speed	not applicable
Melting point [°C]	287 (1013 hPa)
Autoignition temperature [°C]	not applicable
Decomposition temperature	not applicable

9.2 Other information

No informations available.



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10 Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with alkalies (lyes).

10.4 Conditions to avoid

Reactions with damp air and moistureness.
Strong heating.

10.5 Incompatible materials

Various metals.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Zinc chloride, CAS: 7646-85-7

LC50, inhalative, Rat: $\leq 1,975$ mg/m³ (Lit.)

LD50, oral, Rat: 1100 - 1260 mg/l (Lit.)

Serious eye damage/irritation

not determined

Skin corrosion/irritation

Product is caustic.

Respiratory or skin sensitisation

Non-sensitizing.

STOT-single exposure

not determined

STOT-repeated exposure

not determined

Mutagenicity

Ames-test: negative.

Reproduction toxicity

not determined

Carcinogenicity

not determined

General remarks

Product is severely caustic.

The toxicological data are those of the pure product.

12 Ecological information

12.1 Toxicity

Zinc chloride, CAS: 7646-85-7

LC50, (96h), Oncorhynchus mykiss: 0,169 mg Zn/l.

IC50, (72h), Selenastrum capricornutum: 0,136 mg Zn/l (Lit.). M=1

EC50, (48h), Ceriodaphnia dubia: 0,147 - 0,413 mg Zn/l (Lit.). M=1

LC50, (96h), Pimephales promelas: 0,78 mg Zn/l (Lit.). M=1

12.2 Persistence and degradability

Behaviour in environment compartments

not determined

Behaviour in sewage plant

not determined

Biological degradability

not applicable

12.3 Bioaccumulative potential

No informations available.



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12.4 Mobility in soil

No informations available.

12.5 Results of PBT and vPvB assessment

not applicable

12.6 Other adverse effects

Do not discharge product unmonitored into the environment.

13 Disposal considerations**13.1 Waste treatment methods**

Coordinate the waste disposal with the national authorities.

Product

Dispose of as hazardous waste.
Coordinate disposal with the disposal contractor/authorities if necessary.

Waste no. (recommended)

060313*

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.
Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Waste no. (recommended)

150110*

14 Transport information**14.1 UN number**

See point 14.2 in accordance with UN shipping name

14.2 UN proper shipping name**Classification according to ADR**

UN 2331 Zinc chloride, anhydrous 8 N III

- Classification Code

C2

- Label**- ADR LQ**

5 kg

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 3 (E)

Classification according to IMDG

UN 2331 Zinc chloride, anhydrous 8 III MARINE POLLUTANT

- EMS

F-A, S-B

- Label**- IMDG LQ**

5 kg

Classification according to IATA

UN 2331 Zinc chloride, anhydrous 8 III

- Label**14.3 Transport hazard class(es)**

See point 14.2 in accordance with UN shipping name

14.4 Packing group

See point 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See point 14.2 in accordance with UN shipping name





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14.6 Special precautions for user

Relevant information under points 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No informations available.

15 Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

EEC-REGULATIONS	1967/548 (2008/58, 30. ATP/ 31. ATP); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EWG (2008/47/EG)
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2011); IMDG-Code (34. Amdt.); IATA-DGR (2011).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits with amendments October 2007. CHIP 3/ CHIP 4

15.2 Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

16 Other informations

R-phrases (Chapter 03)	R 22: Harmful if swallowed. R 34: Causes burns. R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Hazard statements (Chapter 03)	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
Observe employment restrictions for people	yes
VOC (1999/13/CE)	not applicable

Disclaimer: 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.

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