



S.A. LIPMES

08243 Manresa (Barcelona)

Date printed 15.12.2010, Revision 14.12.2010

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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

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1.4 Emergency phone

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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. |

13 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. 18, 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. |
|-----------------------------------|--|

14 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.

15 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.

16 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

17 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 alkalis.

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

18 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/m³. 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 |

19 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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110 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 alkalis (lyes).

10.4 Conditions to avoidReactions with damp air and moistureness.
Strong heating.**10.5 Incompatible materials**

Various metals.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

111 Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Zinc chloride, CAS: 7646-85-7

LC50, inhalative, Rat: 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 not

STOT-repeated exposure

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.

112 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=1EC50, (48h), *Ceriodaphnia dubia*: 0,147 - 0,413 mg Zn/l (Lit.). M=1LC50, (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.

115 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. Arndt.); 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.

116 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

VOE (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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