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SECTION 1: Identification of the substance / preparation and of the company

1.1 Product identifier

Zink chloride Granules-Powder

Registration number

01-2119472431-44-0001

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

1.2.1 Relevant uses

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

1.2.2 Uses advised against

None known.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Hazard pictograms



Signal word

DANGER

Acute Tox. 4 - H302 Harmful if swallowed.
Skin Corr. 1B - H314 Causes severe skin burns and eye damage.
STOT SE 3 - H335 May cause respiratory irritation.
Aquatic Acute 1 - H400 Very toxic to aquatic life.
Aquatic Chronic 1 - H410 Very toxic to aquatic life with long lasting effects.

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

Hazard symbols



Corrosive



Dangerous for the environment

R-phrases

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.

The product is classified and required to be labelled in accordance with EC-Directives

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.
 H335 May cause respiratory irritation.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P260 Do not breathe dust.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 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.
 P501 Dispose of contents/container to in accordance with local/regional/national/international regulation.

Special labelling

not applicable

2.3 Other hazards**Environmental hazards**

The product/the substance has the Water Hazard Class 3.

Other hazards

Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients**3.1 Product-type:**

The product in question is a substance.

Range [%]	Substance
~100	Zinc chloride
	CAS: 7646-85-7, EINECS/ELINCS: 231-592-0, EU-INDEX: 030-003-00-2, ECB-Nr.: 01-2119472431-44-0001
	GHS/CLP: Acute Tox. 4 - H302 - Skin Corr. 1B - H314 - Aquatic Acute 1 - H400 - Aquatic Chronic 1 - H410 - STOT SE 3 - H335
	EEC: C-N, R 22-34-50/53

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.
 For the wording of the listed risk phrases refer to section 16.

SECTION 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.

SECTION 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).

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 within the local regulations.

SECTION 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 within the regulations.

6.4 Reference to other sections

See section 8+13

SECTION 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 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, section 1.2

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

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

Range [%]	Substance
~100	Zinc chloride
	CAS: 7646-85-7, EINECS/ELINCS: 231-592-0, EU-INDEX: 030-003-00-2, ECB-Nr.: 01-2119472431-44-0001
	Long-term exposure: 1 mg/m ³ , fume
	Short-term exposure (15-minute): 2 mg/m ³

DNEL

Range [%]	Substance
~100	Zinc chloride, CAS: 7646-85-7
	Industrial, dermal, Long-term - systemic effects: 8,3 mg Zn/kg bw/d.
	Industrial, inhalative, Long-term - systemic effects: 1 mg Zn/m ³ .
	general population, oral, Long-term - systemic effects: 0,83 mg Zn/kg bw/d.
	general population, dermal, Long-term - systemic effects: 8,3 mg Zn/kg bw/d.
	general population, inhalative, Long-term - systemic effects: 1,3 mg Zn/m ³ .

PNEC

Range [%]	Substance
~100	Zinc chloride, CAS: 7646-85-7
	sediment (fresh water), 117,8 mg/kg dw.
	sediment (marine water), 56,5 mg/kg dw.
	marine water, 6,1 µg/l.
	sewage treatment plants (STP), 52 µg/l.
	soil, 35,6 mg/kg dw.
	fresh water, 20,6 µg/l.

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

SECTION 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/gas pressure [kPa]	1,33 hPa (428°C)
Density [g/ml]	2,93
Bulk density [kg/m ³]	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.

SECTION 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 avoidReactions with damp air and moistureness.
Strong heating.**10.5 Incompatible materials**

Various metals.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Range [%]	Substance
~100	Zinc chloride, CAS: 7646-85-7
	LC50, inhalative, Rat: $\leq 1,975$ mg/m ³ (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.
Specific target organ toxicity — single exposure	not determined
Specific target organ toxicity — 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.

SECTION 12: Ecological information**12.1 Toxicity**

Range [%]	Substance
~100	Zinc chloride, CAS: 7646-85-7
	EC50, (48h), Ceriodaphnia dubia: 0,147 - 0,413 mg Zn/l (Lit.). M=1
	IC50, (72h), Selenastrum capricornutum: 0,136 mg Zn/l (Lit.). M=1
	LC50, (96h), Oncorhynchus mykiss: 0,169 mg Zn/l.
	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.

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.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

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*

SECTION 14: Transport information**14.1 UN number**

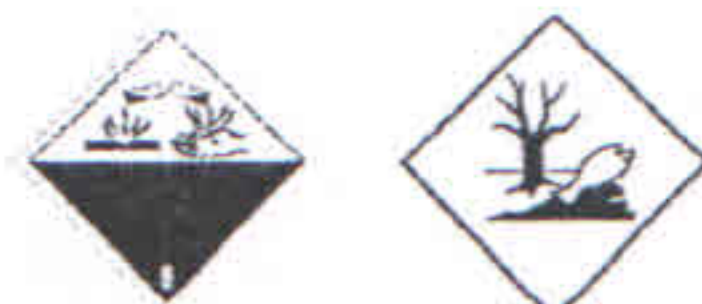
See section 14.2 in accordance with UN shipping name

14.2 UN proper shipping name**Transport by land according to ADR/RID**

UN 2331 Zinc chloride, anhydrous (ENVIRONMENTALLY HAZARDOUS) 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)

Inland navigation (ADN)

UN 2331 Zinc chloride, anhydrous (ENVIRONMENTALLY HAZARDOUS) 8 N III

- Classification Code

C2

- Label**Marine transport in accordance with IMDG**

UN 2331 Zinc chloride, anhydrous 8 III MARINE POLLUTANT

- EMS

F-A, S-B

- Label**- IMDG LQ**

5 kg

Air transport in accordance with IATA

UN 2331 Zinc chloride, anhydrous 8 III

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

See section 14.2 in accordance with UN shipping name

14.4 Packing group

See section 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See section 14.2 in accordance with UN shipping name



14.6 Special precautions for user

Relevant information under section 6 to 8.

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

No informations available.

SECTION 15: Regulatory information

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

EEC-REGULATIONS	1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2011); IMDG-Code (2011, 35. Amdt.); IATA-DGR (2012).
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.

SECTION 16: Other informations

16.1 R-phrases (section 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.

16.2 Hazard statements (section 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.
H335 May cause respiratory irritation.

16.3 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 ELINCS = European List of Notified Chemical Substances
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 TLV®/TWA = Threshold limit value – time-weighted average
 TLV®STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

16.4 Other informations

Observe employment restrictions for people	yes
VOC (1999/13/CE)	not applicable
Customs Tariff	not determined
Modified position	Section 15 been added: STOT SE 3 Section 15 been added: Dispose of contents/container to in accordance with local/regional/national/international regulation. Section 15 been added: May cause respiratory irritation. Section 15 been added: Wear protective gloves/protective clothing/eye protection/face protection.