

Safety Data Sheet
According to Regulation (EC) 1907/2006



1779 Zinc Chloride

1. Identification of the substance/preparation and of the company or firm

1.1 Identification of the substance or preparation

Name:

Zinc Chloride

Synonym:

REACH Registration Number: A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) N° 1907/2006, the annual tonnage does not require a registration, the registration is envisaged for a later registration deadline or it is a mixture.

1.2 Use of the substance/preparation:

For laboratory utilisation, analysis, research and fine chemistry.

1.3 Identification of the company or firm:

PANREAC QUIMICA S.L.U.

C/Garraf 2

Polígono Pla de la Bruguera

E-08211 Castellar del Vallès

(Barcelona) Spain

Tel. (+34) 937 489 400

e-mail: product.safety@panreac.com

1.4 Emergency telephone:

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

2. Identification of dangers

Classification of the substance or the mixture.

Classification Regulation (CE) n° 1272/2008.

Acute Tox. 4

Skin Corr. 1B

Aquatic Acute 1

Aquatic Chronic 1

Hazard Pictograms



Signal word

Danger

Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash...thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Classification (67/548/CEE or 1999/45/CE).

N Dangerous for the environment

R50/53

C Corrosive

R34

R22

For the full text of the R-phrases mentioned in this section, see section 16.

3. Component Composition/Information

Name: Zinc Chloride

Formula: ZnCl_2 M.= 136,28 CAS [7646-85-7]

EC number (EINECS): 231-592-0

EC index number: 030-003-00-2

4. First aid**4.1 General indications:**

Never provide drink or induce vomiting in the event of loss of consciousness.

4.2 Inhaling:

Take the person out into the fresh air. In the event of suffocation, proceed immediately to provide artificial respiration. Seek immediate medical assistance.

4.3 Contact with the skin:

Wash with plenty of water. Remove contaminated clothing. Take the product out with cotton wool soaked in polyethylene-glycol 400.

4.4 Eyes:

Wash with plenty of water (for at least 15 minutes), keeping eyelids open. Seek immediate medical assistance.

4.5 Swallowing:

Drink large amounts of water. Avoid vomiting (there is a risk of perforation). Seek immediate medical assistance. Do not neutralize.

5. Fire-fighting means

5.1 Suitable fire-extinguishing means:

As appropriate to the environment.

5.2 Fire-fighting means which must NOT be used:

No specific data.

5.3 Special risks:

Incombustible. In the event of fire, toxic fumes may form: Cl₂, HCl. Precipitate fumes formed with water.

5.4 Protective equipment:

Suitable clothing and footwear.

6. Measures to be taken in the event of accidental spillage

6.1 Individual precautions:

Do not inhale the dust.

6.2 Precautions for care of the environment:

Avoid pollution of the soil, water supplies and drains.

6.3 Methods for collection/cleaning:

Collect up dry and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

7. Handling and storage

7.1 Handling:

No special indications.

7.2 Storage:

Well sealed containers. In well ventilated premises. Room temperature.

8. Staff exposure/protection controls

8.1 Technical protective measures:

No special indications.

8.2 Exposure limit control:

VLA-EC: 2 mg/m³

VLA-ED: 1 mg/m³

8.3 Respiratory protection:

If dust forms, use suitable respiratory protection.

8.4 Hand protection:

Use suitable gloves

8.5 Eye protection:

Use suitable goggles.

8.6 Individual hygiene measures:

Remove contaminated clothing. Use suitable work clothing. Wash hands and face before breaks and when the job is done.

8.7 Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

9. Physical and chemical properties

Appearance: solid

Colour: White

Granulometry: N/A

Odour: Odourless.

pH: 5 ((100g/l))

Melting point/freezing point: 290 °C

Initial boiling point and boiling range: 730 °C

Flash point:

N/A

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits:

N/A

Vapour pressure: N/A

Vapour density: N/A

Relative density:

N/A

Solubility: 3.680 g/l in water 20 °C

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature:

N/A

Decomposition temperature: N/A

Viscosity: N/A

10. Stability and reactivity

10.1 Conditions which should be avoided:

The product is chemically stable under standard ambient conditions (room temperature).

10.2 Matter which should be avoided:

No specific data.

10.3 Hazardous decomposition products:

No specific data.

10.4 Complementary information:

Through heating, the product loses the crystallization water.

11. Toxicological information

11.1 Acute toxicity:

LD50 oral rat : 350 mg/kg
TC L0 inh man : 4800 mg/m³ 30 min
LC L0 inh rat : 1960 mg/m³ 10 min
LC L0 inh rat : 1960 mg/m³ 10 min
LD50 ipr mus : 24 mg/kg

11.2 Dangerous effects for health:

If dust inhaled: Irritations to the respiratory tracts. Can cause oedemas in the respiratory tract Upon contact with the skin: Burns in the mucosae, skin and eyes Through contact with the eyes: burns If swallowed: Irritations of the mucosae in the mouth, throat, oesophagus and intestinal tract. Can cause stomach pains vomiting intestinal disorders hypotension alterations of the circulation collapse Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

12. Environmental information

12.1 Toxicity:

12.1.1 - EC50 test (mg/l):
Fish (*Leuciscus Idus*) 21 mg/l
Classification:
Extr. toxic
Crustaceans (*Daphnia magna*) 12 mg/l
Classification:
Extr. toxic
12.1.2. - Receptor medium:
Risk for the water environment
Medium
Risk for the land environment
Low
12.1.3. - Observations:
Acute ecotoxicity in the dumping area.

12.2 Persistence and Degradability :

12.2.1 - Test:
12.2.2. - Biotic degradation classification:
BOD5/COD
Biodegradability
12.2.3. - Abiotic degradation depending on pH:
12.2.4. - Observations:

12.3 Bioaccumulative potential:

12.3.1. - Test:
12.3.2. - Bioaccumulation:
Risk
12.3.3. - Observations:

12.4 Mobility in soil :

Data not available.

12.5 Assessment PBT and MPMB :

Data not available.

12.6 Other possible effects on the environment:

Do not allow it to enter soils or water channels.

13. Considerations regarding elimination

13.1 Substance or preparation:

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.

In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes. Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

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13.2 Contaminated containers:

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

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14. Information concerning transport

Overland (ADR):

Technical name: ZINC CHLORIDE, ANHYDROUS

UN 2331 Class: 8 PELIG.M.AMB Packaging group: III (E)

By sea (IMDG):

Technical name: ZINC CHLORIDE, ANHYDROUS

UN 2331 Class: 8 PELIG.M.AMB Packaging group: III

By air (ICAI-IATA):

Technical name: Zinc chloride, anhydrous

UN 2331 Class: 8 PELIG.M.AMB Packaging group: III

Packaging instructions: CAO 864 PAX 860

15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

16. Other information

Other precautionary statements

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P321 Specific treatment (see on this label).
P330 Rinse mouth.
P338 Remove contact lenses, if present and easy to do. Continue rinsing.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.
P405 Store locked up.
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

Labelling (65/548/CEE or 1999/45/CE)

R-phrases(s):	R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R34 Causes burns. R22 Harmful if swallowed.
S-phrases(s):	S60 This material and its container must be disposed of as hazardous waste. S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

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In respect of the previous review, changes have been made to the following sections: 15

The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.