Scientific Laboratory Supplies - Safety Data Sheet

CHE3912

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.1 Revision date: 16 April 2021
Date printed: 16 September 2024

Section 1. Identification

1.1 Product Identifier CHE3912

Product Name ZINC CHLORIDE ANHYDROUS pure 3Kg.

CAS Number 7646-85-7

REACH Registration No 01-2119472431-44-XXXX

Molecular Formula ZnCl₂ =136.29

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier Scientific Laboratory Supplies

SCIENTIFIC LABORATORY SUPPLIES

Unit 6, Foresters Avenue Fairham Business Park

Fairham Nottingham NG11 2AF

UNITED KINGDOM

Phone 0115 9821111 Fax 0115 9825275

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(24hr) 112

(Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Skin corrosion/irritation, category 1B H314: Causes severe skin burns and eye damage. Acute toxicity, category 4 (oral) H302: Harmful if swallowed.

Spec target organ tox - single, category 3

Hazard to aquatic environment, category 1

Hazard to aquatic environment, category 1

Hazard to aquatic environment, category 1

Hazard to aquatic environment, category 1 H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms





Ref: CHE3912



Hazard Statements Harmful if swallowed. Causes severe skin burns and eye damage. Very toxic to aquatic life with long lasting

effects. May cause respiratory irritation.

Precautionary Statements Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves /

protective clothing / eye protection / face protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and

continue rinsing.

Section 3. Composition

3.1 Substances

| Component | CAS No. | EEC No. | REACH No. | Conc w/w | CLP Classification (1272/2008/CE) | |
|---------------|-----------|-----------|--------------------------------|----------|--|--|
| Zinc chloride | 7646-85-7 | 231-592-0 | 2-0 01-2119472431-44-XXXX >98% | | Skin Corr. 1B,Acute Tox. 4 (O),STOT SE 3 (I),Aquatic Acute 1,Aquatic Chronic 1 | |

Section 4. First Aid

4.1 Description of first aid measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL

ATTENTION.

Skin Wash off skin thoroughly with water. If discomfort persists OBTAIN MEDICAL ATTENTION.

Inhalation Remove from exposure.

Ingestion Wash out the patients mouth thoroughly with water. OBTAIN MEDICAL ATTENTION URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

aiders

4.2 Most important symptoms and effects, both acute & 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. Fire Fighting

5.1 Extinguishing media

Extinguishing Media Consider what other flammable materials are present and act accordingly.

Unsuitable Media Nothing specified.

5.2 Special hazards arising from the substance or mixture

Hazards May evolve toxic fumes if involved in a fire.

5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear

protective clothing and breathing apparatus.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Use approved personal protective equipment.

6.2 Environmental precautions

Environmental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local

Environmental Health Officer if major spillage occurs.

6.3 Methods and material for containment and cleaning up

Major Spillage Shovel/sweep up into container for removal Wash area down with copious amounts of water.

Minor Spillage Wash area down with copious amounts of water.

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains dust concentrations to a minimum.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage . Protect against ingress of moisture.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

| 1 | Component | CAS No | Concentration | Workplace Exposure Limits | | | | |
|---|---------------|-----------|---------------|---------------------------|---------|--------------------------|---|--|
| | | | | Long Term (8 | hr TWA) | Short Term 15min period) | | |
| 1 | Zinc chloride | 7646-85-7 | >98% | - | - | = | - | |

Exposure data source(s) No occupational exposure data currently available.

8.2 Exposure controls

Respiratory Protection If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.

Hand Protection Wear gloves.

Eye Protection Use tightly fitting chemical splash proof glasses or goggles.

Skin Protection Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance White deliquescent crystalline material.

Odour No specific odour. pH 5 @ 20°C solution.

Boiling Point 732°C
Melting Point 282°C
Flash Point Not applicable
Upper Flammable Limit Not applicable
Lower Flammable Limit Not applicable
Auto Ignition Not applicable

Explosive Properties No. Oxidising Properties No.

Vapour Pressure Not applicable Relative Density 2.9070 Water Solubility 43%

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1 Reactivity No data available.

10.2 Chemical Stability Stable under normal conditions

10.3 Possibility of hazardous No data available.

reactions

10.4 Conditions to Avoid Excessive heating.

10.5 Incompatable Materials Water, material is very deliquescent. Mixtures with powdered zinc are flammable.

0.6 Hazardous Decomposition Will decompose to emit toxic and irritant fumes of hydrogen chloride.

Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes Contact with the solid or dust will be be extremely irritating to eyes and can cause chemical eye burns.

Skin Contact with the solid or dust will cause burns. It is an irritant to the skin producing dermatitis.

LD50 Skin Not available

Ingestion Ingestion will cause severe mouth burns, and if swallowed extensive damage to the oesophagus. Harmful if

swallowed.

LD50 Oral 350mg/kg Rat

Inhalation Inhalation of dust will produce severe irritation of the eyes, nose, throat and respiratory tract.

LD50 Inhalation Not available

TCLo 2mg/l

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity May be a mutagen.

Reproductive Effects None identified.

Section 12. Ecological

12.1 Toxicity Not biodegradable : highly water contaminating. Very Toxic to aquatic organisms and may cause long term

adverse effects in the aquatic environment.

LC50 Algal Not available
LC50 Crustacea Not available
LC50 Fish Not available

12.2 Persistence and

degradability

No data available.

12.3 Bioaccumulative potential No data available.12.4 Mobility in soil No data available.

12.5 Results of PBT & vPvB

assessment

Assessment not required.

12.6 Other adverse effects None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods Dispose of to a licensed land fill site.

Contaminated Packaging Wash out containers with water. Use a licensed waste disposer.

Section 14. Transport Information

14.1 UN Number 2331

14.2 Proper Shipping Name Zinc chloride, anhydrous

14.3 Transport classes

UN classification 8
Subsidiary hazard(s) None
Transport category 3
ADR Hazard ID 80
Tunnel Restriction Code E

14.4 Packing Group III

CORROSIVE

14.5 Environment hazards See section 12.

14.6 Special precautions for No special precautions required.

user

14.7 Transport in bulk Not transported in bulk.

Section 15. Regulatory Information

$15.1\ Safety, health\ and\ environment\ regulations\ specific\ for\ subtance/mixture.$

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Skin corrosion/irritation, category 1B; Acute toxicity, category 4 (oral); Spec target organ tox - single, category 3;

Hazard to aquatic environment, category 1; Hazard to aquatic environment, category 1

Signal word Danger

Hazard Pictograms







Hazard Statements H302, H314, H410, H335

Harmful if swallowed. Causes severe skin burns and eye damage. Very toxic to aquatic life with long lasting

effects. May cause respiratory irritation.

Precautionary Statements P264, P270, P280, P301+P330+P331, P303+P361+P353, P305+P351+P338

Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves / protective clothing / eye protection / face protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and

continue rinsing.

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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