

MATERIAL SAFETY DATA SHEET

Product Name: Zinc chloride

CAS No.: 7646-85-7

Version: 0

1. Identification

Product Code : 90269, 90590, 91318
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2. Hazards Identification**Hazard classification**

Acute toxicity, Oral : Category 4
Skin corrosion : Category 1B
Acute aquatic toxicity : Category 1
Chronic aquatic toxicity : Category 1

Label elements**Hazard symbol****Signal word**

: Danger

Hazard statement

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

Precautionary statement

: Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Other hazards which do not result in GHS classification

: None.

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Ingredient	CAS No
ZINC CHLORIDE	10361-37-2

4. First Aid Measures**Description of first aid measures**

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
Inhalation	: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Skin contact	: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.
Eye contact	: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Swallowed	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most important symptoms and effects, both acute and delayed	: To the best of our knowledge, the chemical, physical, and toxicological properties have not been Thoroughly investigated
Indication of any immediate medical attention and special treatment needed	: No data available
Treatment	

5. Fire fighting measures

Extinguishing media	
Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture	: Hydrogen chloride gas, Zinc/zinc oxides
Advice for firefighters	: Wear self contained breathing apparatus for fire fighting if necessary
Further information	: Use water spray to cool unopened containers.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency	: Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate
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- procedures** : ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
- Environmental precautions** : Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- Methods and materials for containment and cleaning up** : Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- Reference to other sections** : For disposal see section 13.

7. Handling and Storage

- Precautions for safe handling** : Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
- Conditions for safe storage, including any incompatibilities** : Handle under nitrogen, protect from moisture. Store under nitrogen. Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Strongly hygroscopic
- Specific end use(s)** : No data available

8. Exposure Controls Personal Protection**Control parameters****Components with workplace control parameters****Exposure controls**

- Appropriate engineering controls** : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

- Eye/face protection** : Use equipment for eye protection tested and approved under appropriate government standards.

Skin Protection Hand protection

- : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.
Wash and dry hands.

Body Protection

- : Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

- : Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

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Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. Physical and Chemical Properties

Appearance	: Powder crystalline powder
Odor	: No data available
pH	: 5 at 100 g/l at 20 °C
Melting point/freezing point	: 293 °C
Initial boiling point and boiling range	: 732 °C at 1.013 hPa
Flash Point	: Not applicable.
Vapor pressure	: 1 hPa at 428 °C
Vapor density	: No data available
Specific gravity	: 2.907 g/cm ³
Solubility in water	: Soluble
Solubility (other)	: No data available
Formula	: Cl ₂ Zn
Molecular Weight	: 136.30 g/mol

10. Stability and Reactivity

Reactivity	: No data available
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: No data available
Conditions to avoid	: Exposure to moisture
Incompatible materials	: Strong oxidizing agents
Hazardous decomposition products	: Other decomposition products - no data available

11. Toxicological Information**Information on toxicological effects**

Acute toxicity	: LD50 Oral - Rat - 350 mg/kg
Skin corrosion/irritation	: Causes burns.
Serious eye damage/eye irritation	: No data available
Respiratory or skin sensitization	: No data available

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- Germ cell mutagenicity** : Ames test
S. typhimurium
Result: negative
- Carcinogenicity** : IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- Reproductive toxicity** : No data available
- Specific target organ toxicity - single exposure** : No data available
- Specific target organ toxicity - repeated exposure** : No data available
- Aspiration hazard** : Zinc chloride and its aqueous solutions are corrosive to the eyes and skin. They cause conjunctivitis and corneal burns in the eye and produce chemical burns, particularly on areas where the skin is broken. Ingestion produces a corrosive action to the mouth, throat, and digestive tract which can include symptoms of stomach pain, nausea, vomiting, bloody diarrhea, swelling of the throat, blood in the urine, and shock. Inhalation irritates the nose and throat producing cough, chest pain, bluish skin, fever, nausea and vomiting, shortness of breath, difficulty in breathing (onset may be delayed by several hours), and pneumonia. Fatalities have occurred by inhalation and ingestion.

12. Ecological Information

- Toxicity** : Toxicity to fish LC50 - Cyprinus carpio (Carp) - 0,4 - 2,2 mg/l - 96,0 h
Toxicity to daphnia and other aquatic invertebrates
EC50 - Daphnia magna (Water flea) - 0,2 mg/l - 48 h
Toxicity to algae Growth inhibition LOEC -
Pseudokirchneriella subcapitata - 12,5 mg/l - 96 h
- Persistence and degradability** : No data available.
- Bioaccumulative potential** : Pimephales promelas (fathead minnow) - 63 d
- Mobility in soil** : No data available.
- Other adverse effects** : Very toxic to aquatic life with long lasting effects.

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13. Disposal consideration

- Disposal instructions** : Discharge, treatment, or disposal may be subject to national, state, or local laws.
- Contaminated packaging** : Offer rinsed packaging material to local recycling facilities. Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport Information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	2331	ZINC CHLORIDE	8	III	yes
IMDG	2331	ZINC CHLORIDE	8	III	yes
IATA	2331	ZINC CHLORIDE	8	III	yes

15. Regulatory Information

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

Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

16. Other Information

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