

# SAFETY DATA SHEET

## ZINC CHLORIDE

### SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

**BioShop Canada Inc.**  
**5480 Mainway**  
**Burlington, Ontario L7L 6A4**  
**1-800-234-1179**  
**Emergency Telephone No.: 1-905-466-3832**  
**Chemical Name:** Zinc Chloride  
**Catalog Number:** ZNC233, ZNC222

### SECTION 2 HAZARDS IDENTIFICATION

#### Emergency overview:

#### GHS Classification:

Acute toxicity, Oral, Category 4  
Skin corrosion, Category 1B  
Serious eye damage Category 1  
Acute aquatic toxicity Category 1  
Chronic aquatic toxicity, Category 1

#### Pictogram



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 statement:

P260 Do not breathe dust or mist.  
P264 Wash skin 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  
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.  
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

#### Potential health effects:

**Routes of entry:** Eyes, skin, inhalation, Ingestion.

**Eyes:** Causes eye burns. May cause irreversible eye injury. Contact may cause Ulceration of the conjunctiva and cornea.

**Skin:** Causes skin burns. May cause skin rash.

**Inhalation:** Harmful if inhaled. Inhalation may lead to chemical pneumonitis and pulmonary edema. Fumes may cause severe irritation of upper respiratory tract with coughing, burns, breathing difficulty.

**Ingestion:** Harmful if swallowed. May cause severe and permanent damage to the digestive tract.

### SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
Zinc Chloride	7646-85-7	99%

Molecular Formula:  $\text{ZnCl}_2$

Molecular Weight: 136.29

### SECTION 4 FIRST AID MEASURES

**Eyes:** Flush eyes with water for at least 15 minutes, occasionally lifting the upper and lower eyelids. GET MEDICAL ATTENTION IMMEDIATELY..

**Skin:** In case of contact, flush area immediately with soap and water while removing contaminated clothing and shoes. Wash clothing before reuse. Discard contaminated clothing in a manner which limits further exposure.

**Inhalation:** GET MEDICAL ATTENTION IMMEDIATELY. Remove from exposure to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

**Ingestion:** If swallowed wash mouth out with water if person is conscious. GET MEDICAL ATTENTION. > Do Not induce vomiting.

### SECTION 5 FIRE FIGHTING MEASURES

**General Information:** Always wear full protective gear in the event of a fire. Toxic gases and vapors may be generated by decomposition or combustion.

Excessive dust in combination with air can create an explosive mixture.

**Flammable:** No

**Flash Point:** N/A

**Autoignition Temperature:** N/A

**Extinguishing Media:** Use water spray, foam, dry chemical or carbon dioxide.

**Explosion Data:** container explosion may occur under fire conditions.

### SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate the area. Wear appropriate protective equipment. Sweep and place in a closed container. In the event of a fire always wear self-contained breathing apparatus, NIOSH/MSHA approved or equivalent.

**Leak and Spill Procedures:** Ventilate the area. Wear appropriate protective equipment. Cover with dry lime or soda. Sweep and place in a closed container. Avoid generating dust.

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## ZINC CHLORIDE

### SECTION 7 HANDLING AND STORAGE

**Handling:** Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Minimize dust generation.

**Storage Conditions:** Room temperature. Avoid moisture

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure limits:**

TWA 1mg/m<sup>3</sup>, STEL 2mg/m<sup>3</sup>

Use adequate ventilation. Avoid dust generation..

Wear appropriate protective equipment to prevent eye and skin exposure.

Wear appropriate respirator to prevent lung irritation.

**Personal Protection:** Lab coat, safety goggles, rubber gloves.

**Ventilation:** Use appropriate exhaust ventilation .

**Respiratory protection:** use OSHA/MSHA approved dust masks.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Solid

**Appearance and Odor:** white, odorless

**Melting Point:** 293° C

**Boiling Point:** 732C

**Specific Gravity:** 2.91

**Vapor Density:** N/A

**Water Solubility:** soluble

**pH:** 4.0 (100g/L)

### SECTION 10 STABILITY AND REACTIVITY:

**Stability:** Stable under normal temperatures and pressure

**Conditions to avoid:** dust generation. Excess heat

**Incompatibility:** strong oxidizing agents.

**Hazardous Decomposition Products:** hydrogen gas, zinc oxides.

**Hazardous Polymerization:** Will not occur

### SECTION 11 TOXICOLOGICAL PROPERTIES

**Exposure Limits:**

Oral, mouse : LD50= 329mg/kg

Oral rat: LD50=350 mg/kg

**Epidemiology:** No data available

**Teratogenicity:** No data available

**Reproductive Effects:** No data available **Neurotoxicity:** No data available

**Mutagenicity:** No data available

**Carcinogenicity:** Not listed by ACGIH, IARC, NTP, or OSHA

### SECTION 12 ECOLOGICAL INFORMATION

**Toxicity:**

Toxic to fish, daphnia and other aquatic invertebrates. Toxic to Algae.

### SECTION 13 DISPOSAL CONSIDERATION

**Waste Disposal:** Burn in chemical incinerator. Observe all Federal, provincial and local regulations.

### SECTION 14 TRANSPORT INFORMATION

**Shipping Information:**

**TDG (Canada)**

UN number: 2331 Class: 8 Packing group: III

Proper shipping name: ZINC CHLORIDE, ANHYDROUS

**IMDG**

UN number: 2331 Class: 8 Packing group: III EMS-No: F-A, S-B

Proper shipping name: ZINC CHLORIDE, ANHYDROUS

Marine pollutant:yes Marine pollutant: yes

**IATA**

UN number: 2331 Class: 8 Packing group: III

Proper shipping name: Zinc chloride, anhydrous

### SECTION 15 REGULATORY INFORMATION

**US :** TSCA: listed

**Canada:** WHMIS: E, D1B, D2B

### SECTION 16 ADDITIONAL INFORMATION

Prepared By: M.Kierdelewicz (President)

Date Prepared: Jan 1/2025

Phone: (800) 234-1179

The information provided on this Material Safety Data Sheet is furnished in good faith and without warranty of any kind. The above information is believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product.  
Observe all federal, provincial and state laws concerning health, safety and pollution.