

# Safety Data Sheet

## Zinc Chloride

### Section 1

### Product Description

**Product Name:** Zinc Chloride  
**Recommended Use:** Science education applications  
**Supplier:** C2A Sales & Supplies (Barbados) Ltd.  
#3 Canewood Road, Jackson, St. Michael, Barbados BB11005  
1-246-426-1256

### Section 2

### Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;



## DANGER

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

#### GHS Classification:

Skin Corrosion/Irritation Category 1B, Hazardous to the aquatic environment - Acute Category 1, Hazardous to the aquatic environment

- Chronic Category 1, Acute Toxicity - Oral Category 4

### Section 3

### Composition / Information on Ingredients

Chemical Name	CAS #	%
Zinc chloride	7646-85-7	100

### Section 4

### First Aid Measures

#### Emergency and First Aid Procedures

**Inhalation:** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
**Eyes:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**Skin Contact:** After contact with skin, wash immediately with plenty of water.  
**Ingestion:** IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

### Section 5

### Firefighting Procedures

**Extinguishing Media:** Use media suitable to extinguish surrounding fire.  
**Fire Fighting Methods and Protection:** Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.  
**Fire and/or Explosion Hazards:** Fire or excessive heat may produce hazardous decomposition products.  
**Hazardous Combustion Products:** Zinc Oxides

### Section 6

### Spill or Leak Procedures

**Steps to Take in Case Material Is Released or Spilled:** Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Ventilate the contaminated area. Avoid the generation of dusts during clean-up.

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Ventilate the area by opening door and/or turning on fans and blowers. Vacuum or sweep up material and place in a disposal container Wash area with soap and water Collect spillage.

## Section 7 Handling and Storage

**Handling:** Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

**Storage:** Store locked up. Keep container tightly closed in a cool, well-ventilated place.

**Storage Code:** White - Corrosive. Separate acids from bases; separate oxidizer acids from organic acids.

## Section 8 Protection Information

<u>Chemical Name</u>	<u>ACGIH</u>		<u>OSHA PEL</u>	
	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>
Zinc chloride	1 mg/m3 TWA (fume)	2 mg/m3 STEL (fume)	1 mg/m3 TWA (fume)	N/A

### Control Parameters

**Engineering Measures:** No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

**Personal Protective Equipment (PPE):** Lab coat, apron, eye wash, safety shower.

**Respiratory Protection:** No respiratory protection required under normal conditions of use.

**Eye Protection:** Wear chemical splash goggles when handling this product. Have an eye wash station available.

**Skin Protection:** Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

**Gloves:** Nitrile

## Section 9 Physical Data

**Formula:** ZnCl<sub>2</sub>

**Molecular Weight:** 136.31 g/mol

**Appearance:** Crystalline Solid

**Odor:** No data available

**Odor Threshold:** No data available

**pH:** 4.0

**Melting Point:** = 290 C

**Boiling Point:** = 732 C

**Flash Point:** No data available

**Flammable Limits in Air:** No data available

**Vapor Pressure:** No data available

**Evaporation Rate (BuAc=1):** No data available

**Vapor Density (Air=1):** No data available

**Specific Gravity:** 2.9

**Solubility in Water:** Appreciable (>10%)

**Log Pow (calculated):** No data available

**Autoignition Temperature:** No data available

**Decomposition Temperature:** No data available

**Viscosity:** No data available

**Percent Volatile by Volume:** No data available

## Section 10 Reactivity Data

**Reactivity:** No data available

**Chemical Stability:** Stable under normal conditions.

**Conditions to Avoid:** Elevated temperatures Exposure to moisture

**Hazardous Decomposition Products:** Zinc Oxides, Chlorine containing gases

**Hazardous Polymerization:** Will not occur

## Section 11 Toxicity Data

**Symptoms (Acute):** No data available

**Delayed Effects:** No data available

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## Acute Toxicity:

<b>Chemical Name</b> Zinc chloride	<b>CAS Number</b> 7646-85-7	<b>Oral LD50</b> Oral LD50 Rat 350 mg/kg	<b>Dermal LD50</b> Dermal LD50 Guinea pig = 173 mg/kg	<b>Inhalation LC50</b> Not determined
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## Carcinogenicity:

<b>Chemical Name</b> No data available	<b>CAS Number</b> 7646-85-7	<b>IARC</b> Not listed	<b>NTP</b> Not listed	<b>OSHA</b> Not listed
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## Chronic Effects:

<b>Mutagenicity:</b>	No evidence of a mutagenic effect.
<b>Teratogenicity:</b>	No evidence of a teratogenic effect (birth defect).
<b>Sensitization:</b>	No evidence of a sensitization effect.
<b>Reproductive:</b>	No evidence of negative reproductive effects.

## Target Organ Effects:

<b>Acute:</b>	No data available
<b>Chronic:</b>	No data available

## Section 12 Ecological Data

<b>Overview:</b>	Severe ecological hazard. This product may be toxic to plants and/or wildlife.
<b>Mobility:</b>	No data
<b>Persistence:</b>	No data
<b>Bioaccumulation:</b>	No data
<b>Degradability:</b>	No data
<b>Other Adverse Effects:</b>	No data

<b>Chemical Name</b> Zinc chloride	<b>CAS Number</b> 7646-85-7	<b>Eco Toxicity</b> Aquatic LC50 Rainbow Trout = 1.1 MG/L Aquatic EC50 (48h) Daphnia = 390 ul/l
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## Section 13 Disposal Information

<b>Disposal Methods:</b>	Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
<b>Waste Disposal Code(s):</b>	Not Determined

## Section 14 Transport Information

<b>Ground - DOT Proper Shipping Name:</b> UN/NA number: UN2331; Shipping name: Zinc chloride, anhydrous; Hazard class: 8; Packing group: III	<b>Air - IATA Proper Shipping Name:</b> UN/NA number: UN2331; Shipping name: Zinc chloride, anhydrous; Hazard class: 8; Packing group: III
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## Section 15 Regulatory Information

<b>TSCA Status:</b>	All components in this product are on the TSCA Inventory.					
<b>Chemical Name</b>	<b>CAS Number</b>	<b>§ 313 Name</b>	<b>§ 304 RQ</b>	<b>CERCLA RQ</b>	<b>§ 302 TPQ</b>	<b>CAA 112(2) TQ</b>
Zinc chloride	7646-85-7		No	1000 lb RQ; 454 kg final RQ	No	No RQ

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California Prop 65:

No California Proposition 65 ingredients

## Section 16

## Additional Information

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The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

### Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health