



Registered Off. : 101-A, Deep Enclave, Pocket 'D', Ashok Vihar, Phase-III, Delhi-110 052 (India)
Corporate Off. : 152, Vardhman City Centre, Near Shakti Nagar Underbridge, Delhi-110052 (India)
Works : Plot No.1022, Modern Industrial Estate, Bahadurgarh-124507, Haryana (India)
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ZINC CHLORIDE

1. Product Identification

Synonyms: Zinc Chloride, Zinc Dichloride, Zinc Butter

CAS No.: 7646-85-7

Molecular Weight: 136.29

Chemical Formula: $ZnCl_2$

Product Codes: 33609 , 39168

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
Zinc Chloride	7646-85-7	97 - 100%

3. Hazards Identification

Potential Health Effects

Inhalation: Symptoms may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

Ingestion: May cause irritation or corrosion to the gastrointestinal tract with abdominal pain, nausea, and vomiting.

Skin Contact: May cause severe irritation, skin burns and ulcerations. Solutions are corrosive. Symptoms include redness and pain.

Eye Contact: May cause redness, pain, and blurred vision. Splashes from solutions may cause eye damage.

Chronic Exposure: Repeated skin contact can cause varying degrees of problems ranging from dermatitis to ulcerations. Repeated Inhalation can cause occupational asthma.

Aggravation of Pre-existing Conditions: Dermatitis, cardiac and respiratory disorders.

4. First Aid Measures

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion: If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures

Fire: Not considered to be a fire hazard.

Explosion: Not considered to be an explosion hazard.

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Special Information: Use protective clothing and breathing equipment appropriate for the surrounding fire.



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6. Accidental Release Measures

Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

7. Handling and Storage

Keep in a well closed container stored under cold to warm conditions, 2 to 40 C, (36 to 104F). Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

Zinc chloride:

OSHA Permissible Exposure Limit (PEL): 1 mg/m³ (TWA) 8H, as fume.

ACGIH Threshold Limit Value (TLV): 1 mg/m³ (TWA); 2 mg/m³ (STEL) for fume

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal Respirators (NIOSH Approved): If the exposure limit is exceeded, a full facepiece respirator with dust/mist filter may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator.

Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection: Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance: White crystalline granules.

Odor: Odorless.

Solubility: 423 g/100 g water @ 25C (77F)

Density: 2.91 pH: ca. 4 Aqueous solution

% Volatiles by volume @ 21C (70F): 0

Boiling Point: 732C (1350F)

Melting Point: 290C (554F)

Vapor Density (Air=1): Not applicable.

Vapor Pressure (mm Hg): 1 @ 428C (802F)

Evaporation Rate (BuAc=1): Not applicable.

10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: When heated to decomposition it emits toxic fumes of chlorine and zinc oxide.

Hazardous Polymerization: Will not occur.

Incompatibilities: Cyanides and sulfides, powdered zinc. When mixed with potassium, a weak explosion will occur on impact.

Conditions to Avoid: Incompatibles.

The information contained herein is in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. We do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.



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11. Toxicological Information

Oral rat LD50: 350 mg/kg. Investigated as a tumorigen, mutagen, reproductive effector.

-----\Cancer Lists\-----

Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
Zinc Chloride (7646-85-7)	No	No	None

12. Ecological Information

Environmental Fate: No information found.

Environmental Toxicity: No information found.

13. Disposal Considerations

Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Land

Proper Shipping Name: ZINC CHLORIDE
Hazard Class: 8
UN/NA: UN2331
Packing Group: III
Information reported for product/size: 50KG

International (Water, I.M.O.)

Proper Shipping Name: ZINC CHLORIDE
Hazard Class: 8
UN/NA: UN2331
Packing Group: III
Information reported for product/size: 50KG

International (Air, I.C.A.O.)

Proper Shipping Name: ZINC CHLORIDE
Hazard Class: 8
UN/NA: UN2331
Packing Group: III
Information reported for product/size: 50KG

15. Regulatory Information

SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No

Reactivity: No (Pure / Solid)

16. Other Information

Product Use:

Laboratory Reagent.

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