**ZINC CHLORIDE**

**PRODUCT IDENTIFICATION:**
- Synonyms: Zinc Chloride
- Formula CAS No.: 7646-85-7
- Molecular Weight: 136.29
- Chemical Formula: ZnCl₂
- Hazardous Ingredients: Not Applicable.

**PRECAUTIONARY MEASURES**
- DANGER! CAUSES BURNS. HARMFUL IF SWALLOWED OR INHALED.
- Do not get in eyes, on skin, or on clothing.
- Avoid breathing dust.
- Keep container closed.
- Use with adequate ventilation.
- Wash thoroughly after handling.

**EMERGENCY/FIRST AID**
- If swallowed, give several glasses of water or milk to drink. Vomiting may occur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes. In all cases call a physician.
- SEE SECTION 3.
- DOT Hazard Class: ORM-E

**SECTION 1  Physical Data**
- Appearance: White crystalline granules
- Odor: Odorless.
- Solubility: 423 g/100 g water @ 23°C (77°F)
- Boiling Point: 732°C (1350°F)
- Melting Point: 290°C (554°F)
- Specific Gravity: 2.91
- Vapor Density (Air = 1): Not Applicable
- Vapor Pressure (mm Hg): 1 @ 428°C (802°F)
- Evaporation Rate: Not Applicable

**SECTION 2  Fire and Explosion Information**
- 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.

**SECTION 3  Reactivity Data**
- 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: Cynides and sulfides. When mixed with potassium, a weak explosion will occur on impact.

**SECTION 4  Leak/Spill Disposal Information**
- Ventilate area of leak or spill. Clean-up personnel require protective clothing and respiratory protection from dust. Spills: Pick up and place in a suitable container for reclamation or disposal in a method that does not generate dust. Disposal: Whatever cannot be saved for reclamation may be disposed in a RCRA approved hazardous waste facility.
- Reportable Quantity (RCQ) (CWA/CERCLA): 5000 lbs.
- Ensure compliance with local, state and federal regulations.
SECTION 5 Health Hazard Information

A. EXPOSURE / HEALTH EFFECTS

Inhalation:
May be corrosive to the respiratory tract. Symptoms include sore throat, coughing, shortness of breath, and labored breathing.

Ingestion:
Toxic. May cause irritation or corrosion to the gastrointestinal tract with abdominal pain, nausea, and vomiting. May cause delayed death occurring from strictures of the esophagus and pylorus.

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:
No information found.

Aggravation of Pre-existing Conditions:
No information found.

B. FIRST AID

Inhalation:
Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion:
Give several glasses of water or milk, if available, to drink. Vomiting may occur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin Exposure:
In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician.

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

C. TOXICITY DATA (RTECS, 1982)

Oral rat LD50: 350 mg/kg Mutation references cited Reproductive effects cited

SECTION 6 Occupational Control Measures

Airborne Exposure Limits:
None established.

VENTILATION SYSTEM:
A local exhaust system which captures the contaminant at its source is recommended to prevent dispersion of the contaminant into the workroom air.

PERSONAL RESPIRATORS: (NIOSH Approved)
For conditions of use where exposure to the dust is apparent, a dust/mist respirator may be worn. For emergencies, a self-contained breathing apparatus may be necessary.

SKIN PROTECTION:
Wear protective gloves and clean body-covering clothing.

EYE PROTECTION:
Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work area.

SECTION 7 Storage and Special Information

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage.