

Tradeasia International Pte Limited

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MATERIAL SAFETY DATA SHEET OF ZINC CHLORIDE

Product Identification

CAS NO. : 7646-85-7
EINECS NO. : 231-592-0
FORMULA : ZnCl₂
MOL WT. : 136.30
H.S.CODE : 2827.36
TOXICITY : Oral rat LD50: 350 mg/kg
SYNONYMS : Zinc dichloride; Zinc butter; Tinning Flux;

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.

Physical Data

PHYSICAL STATE : White crystalline granules, Odorless
MELTING POINT : 290 C
BOILING POINT : 732 C
SPECIFIC GRAVITY : 2.91
SOLUBILITY IN WATER : 423 g/100 g
pH : 4
NFPA RATINGS : Health: 3 Flammability: 0 Reactivity: 0
STABILITY : Stable under ordinary conditions

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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.

Preventive Measures

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. Avoid release to the environment. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities.

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.

Protective Measures

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. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

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. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

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.

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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.
